

VDOİHİ

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

Cilt 2.3.1.3.4.1.1.3

İsmail YILMAZ

2023

**Matematik / İstatistik / Olasılık**

**ISBN: 978-625-01-3996-7**

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

**2.3.1.3.4.1.1.3**

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

**2.3.1.3.4.1.1.3 / İsmail YILMAZ**

*e-Basım, s. XXVI + 652*

*Kaynakça yok, dizin var*

*ISBN: 978-625-01-3996-7*

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

*Dili: Türkçe + Matematik Mantık*



Türkiye Cumhuriyeti Devleti  
Kuruluşunun  
100.Yılı Anısına



*M. Atatürk*

## Yazar Hakkında

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## VDOİHİ

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- ✓ Makinaların insan gibi düşünebilmesini, karar verebilmesini ve davranışabilmesini sağlayacak gerçek yapay zekayla ilişkilendirilmiştir.
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- ✓ Bilgi merkezli değerlendirme yöntemidir.

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**GÜLDÜNYA**

## Simge ve Kısalmalar

**n:** olay sayısı

**n:** bağımlı olay sayısı

**m:** bağımsız olay sayısı

**t:** bağımsız durum sayısı

**I:** simetrinin bağımsız durum sayısı

**l:** simetrinin bağımlı durumlarından önce bulunan bağımsız durum sayısı

**I:** simetrinin bağımlı durumlarından sonra bulunan bağımsız durum sayısı

**lk:** simetrinin bağımlı durumları arasındaki bağımsız durumların sayısı

**k:** dağılımin başladığı bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası

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

**l<sub>l</sub>:** simetrinin ilk bağımlı durumunun, bağımlı olasılık farklı dizilimsiz dağılımin son olayı için sırası. Simetrinin sonuncu bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

**l<sub>i</sub>:** simetrinin son bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrinin birinci bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

**l<sub>s</sub>:** simetrinin ilk bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz

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

**l<sub>ik</sub>:** simetrinin aranacağı durumdan önce bulunan bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası veya simetrinin iki bağımlı durumu arasında bağımsız durum bulunduğuanda, bağımsız durumdan önceki bağımlı durumun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası

**l<sub>sa</sub>:** simetrinin aranacağı bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrinin aranacağı bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlardaki sırası

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

**j<sub>i</sub>:** simetrinin son bağımlı durumunun, bağımlı olasılıklı dağılımlarda bulunabileceği olayların, son olaydan itibaren sırası

**j<sub>sa</sub><sup>i</sup>:** simetriyi oluşturan bağımlı durumlar arasında simetrinin son bağımlı durumunun bulunduğu olayın, simetrinin son olayından itibaren sırası ( $j_{sa}^i = s$ )

**j<sub>ik</sub>:** simetrinin ikinci olayındaki durumun, gelebileceği olasılık dağılımlardındaki olayın sırası (son olaydan ilk olaya doğru) veya simetride, simetrinin aranacağı durumdan önce bulunan bağımlı durumun, bağımlı olasılıklı dağılımlarda bulunabileceği olayların, son olaydan itibaren sırası veya simetrinin iki bağımlı

durum arasında bağımsız durumun bulunduğuanda 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 bulunabilecegi olayın sırası

$j_s$ : simetrinin ilk bağımlı durumunun, bağımlı olasılıklı dağılımlarda bulunabilecegi 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 bulunabilecegi olaylara göre simetrik olasılık

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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$fz^4 S_{j_s, j_{ik}, j^{sa}, j_i, D}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre simetrik olasılık

$fz,0 S_{j_s, j_{ik}, j^{sa}, j_i}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre simetrik olasılık

$fz,0 S_{j_s, j_{ik}, j^{sa}, j_i, 0}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre simetrik olasılık

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

$fz^0 S_{j_s, j_{ik}, j^{sa}, j_i}$ : 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 simetrik olasılık

$fz^0 S_{j_s, j_{ik}, j^{sa}, j_i, 0}$ : 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 simetrik olasılık

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${}_{fz,0}S_{\Rightarrow j_s, \Rightarrow j_{ik}, j^{sa}, j_i, 0}$ : 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

${}_{fz,0}^0S_{\Rightarrow j_s, \Rightarrow j_{ik}, j^{sa}, j_i, D}$ : 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

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${}_{fz}S_{j_i}^{DSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu

simetrinin son durumunun bulunabileceği olaylara göre toplam düzgün simetrik olasılık

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

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

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

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

$f_z S_{j_{sa},0}^{DSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin durumuna bağlı toplam düzgün simetrik olasılık

$f_z S_{j_{sa},D}^{DSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin durumuna bağlı toplam düzgün simetrik olasılık

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

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$f_z S_{j_s,j_{sa},D}^{DSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu

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

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

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

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

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

$fzS_{j^{sa}}^{DOSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin durumuna bağlı toplam düzgün olmayan simetrik olasılık

$fzS_{j^{sa},0}^{DOSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin durumuna bağlı toplam düzgün olmayan simetrik olasılık

$fzS_{j_{sa},D}^{DOSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin durumuna bağlı toplam düzgün olmayan simetrik olasılık

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

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$fz^0S_{j_s,j_i,D}^{DOSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız veya bağımlı-bağımsız veya bağımsız-bağımsız durumlu bağımlı simetrinin ilk ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

$fzS_{j_s,j_{sa}}^{DOSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk ve herhangi bir durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

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

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

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

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bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

$f_zS_{j_s,j_{ik},j^{sa},0}^{DOSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

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

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

$f_{z,0} S_{j_s, j_{ik}, j^{sa}, j_i, 0}^{DOSD}$ : bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk herhangi iki ve son durumunun bulunabileceği

olaylara göre toplam düzgün olmayan simetrik olasılık

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

${}^0f_{z}S_{j_s,j_{ik},j^{sa},j_i}^{DOSD}$ : 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 toplam düzgün olmayan simetrik olasılık

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

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

durumlu simetrinin 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 simetrinin 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

${}^0S_{\Rightarrow j_s, \Rightarrow j_{ik}, j^{sa}, j_i}^{DOSD}$ : 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

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# E2

## 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

bu yüze sıralanma sırasıyla elde edilebilen kurallı tablolar kullanılmaktadır. Farklı dizilimsiz dağılımlarda durumların küçükteden büyüğe sıralama için verilen eşitliklerde kullanılan durum sayılarının düzenlenmesiyle, büyükten-küçüğe sıralama durumlarının eşitlikleri elde edilebilir.

Farklı dizilimsiz dağılımlar, dağılımin ilk durumuyla başlayan (bunun yerine farklı dizilimsiz dağılımlarda simetrinin ilk durumuyla başlayan dağılımlar), dağılımin ilk durumu hâncinde eşitimin herhangi bir durumuyla başlayan dağılımlar (bunun yerine farklı dizilimsiz simetride bulunmayan bir durumla başlayan dağılımlar) ve dağılımin ilk durumu ikinci olmakta dağılıminin başladığı farklı ikinci durumla başlayıp simetrinin ilk durumuyla başlayan dağılımların sonuna kadar olan dağılımlarda (bunun yerine farklı dizilimsiz 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.

## BAĞIMLI ve BİR BAĞIMSIZ OLASILIKLI FARKLI DİZİLİMSİZ DAĞILIMLAR

Bağımlı dağılım ve bir bağımsız olasılıklı durumla oluşturulabilecek dağılımlara ve bağımlı olasılıklı dağılımların kesişti olay sağlıdan (bağımlı olay sağısı) veya yük olay sağa (bağımlı olay sağısı) dağılımla bağımlı ve bir bağımsız olasılık dağılımlar elde edilir. Bağımlı dağılım farklı dizilimsiz dağılımlıda bulunmaktadır, bu dağılımlara bağımlı ve bir bağımsız olasılık farklı dizilimsiz dağılımlar denir. Bağımlı ve bir bağımsız olasılıklı dağılımlar; bağımlı dağılımlara, bağımsız durumlar ilk sağdan 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, (toplamlı) düzgün simetrik ve (toplamlı) 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 incelenmeye birlikte, bu simetrik olasılıkların bağımsız durumla başlayan ve bağımlı durumlarıyla başlayan dağılımlara göre de tanım 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 oylara göre simetrik olasılık eşitlikleri, simetrinin durumlarının olasılık dağılımındaki sıralamalarına göre ayrı ayrı olacaktır. Bu eşitliklerin elde edilmesinde bağımlı olasılıklı farklı dizilimsiz dağılımlarda simetrinin durumlarının bulunabileceği oylara göre çıkarılan eşitlikler kullanılacaktır. Bu eşitlikler, bir bağımlı ve bir bağımsız olasılıklı dağılımlar için VDC Üçgeni'nden çıkarılan eşitliklerle birleştirilerek, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda yeni eşitlikleri elde edilecektir. Eşitlikleri adlandırıldığında bağımlı olasılıklı farklı dizilimsiz dağılımlarda kullanılan adlandırmalar kullanılacaktır. Eşitliklerin adlarına simetrinin bağımlı ve bağımsız durumlarına göre ve dağılımının 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/bağımsız/bağımlı” kelimeleri getirilerek, simetrinin bağımlı durumlarının bulunabileceği oylara göre bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz adları elde edilecektir. Simetriden seçilen durumların bulunabileceği oylara göre simetrik, düzgün simetrik veya düzgün olmayan simetrik olasılık için birden fazla durum kullanılması durumunda gerekmedikçe yeni tanımlama yapılmayacaktır.

Simetriden seçilen durumların bağımlı olasılık farklı dizilimsiz dağılımlardaki sırasına göre verilen eşitliklerdeki toplam sayıda sınır değerleri, simetrinin küçükten-büyük'e sıralanan dağılımlara göre verildiği gibi 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 düzenlenerken büyükten-küçüğe sıralanan dağılımlar için de simetrik olasılık eşitlikleri elde edilecektir.

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

***SİMETRİDEN SEÇİLEN İKİ DURUMA GÖRE TOPLAM DÜZGÜN OLMAYAN  
SİMETRİK OLASILIK***

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

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

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

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

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

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

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

$$s \geq 4 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\begin{aligned} S_{j_{ik}, j_{sa}}^{DOSD} = & \sum_{k=1}^{n/D + l_{ik} + j_{sa} - n - l_{sa} - j_{sa}^{ik} + 1} \\ & \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{\left(\right)} \sum_{j^{sa} = l_{sa} + n - D}^{l_s + j_{sa} - k} \\ & \sum_{n_i = n + k}^n \sum_{(n_{ik} = n + k - j_{ik} + 1)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - k} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Big) + \end{aligned}$$

**gündünnya**

$$D > \mathbf{n} < n$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

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

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

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Biggr) -$$

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

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

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

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

$$D > \mathbf{n} < n$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

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

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

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

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

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

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

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

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

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

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-\mathbf{l}_{sa}-j_{sa}^{ik}+1}$$

$$\sum_{(j_{ik}=\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$D > \mathbf{n} < n$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=D+\mathbf{l}_{ik}+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}-j_{sa}^{ik}+2}^{D-\mathbf{n}+1} \sum_{(j_{ik}=\mathbf{l}_s+\mathbf{n}+j_{sa}^{ik}-k) \atop (j^{sa}=\mathbf{n}+j_{sa}-k-D)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{n_i=\mathbf{n}+\mathbb{k}+1-j_{ik}+1}^n \sum_{n_{ik}+j_{ik}=n-\mathbb{k}}^{(n_i-j_{ik}-1)} \\ \frac{(n_i-n_{ik})!}{(n_{ik}-2)!(n_i-n_{ik}-j_{ik}+1)!}.$$

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

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

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

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

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

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

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

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

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

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

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

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

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

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

$$s \neq 4 \wedge s = \mathbb{k} \wedge \mathbb{k} \wedge$$

$$\mathbb{k}_{z^*} = 1 \Rightarrow$$

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

$$\sum_{k=D+s-j_{sa}-n-\mathbf{l}_{sa}-j_{sa}^{ik}}^{D-n+\mathbf{l}_{sa}} \sum_{j_{ik}=\mathbf{l}_{ik}+1}^{n-k+1} \sum_{j^{sa}=\mathbf{l}_{sa}+n-D}^{n-k+1}$$

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

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

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

$$\frac{\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\begin{array}{c} \\ \end{array}\right)} \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \frac{(\mathbf{l}_s-k-1)!}{(\mathbf{l}_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (\mathbf{j}_s+j_{sa}-\mathbf{l}_s-1)!} \cdot \frac{(D-\mathbf{l}_i)!}{(D+j_{sa}^s+s-\mathbf{n}-j_{sa}^{ik}-1)! \cdot (\mathbf{n}+j_{sa}^s-j_{sa}^{ik}-s)!}}$$

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

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

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

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

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

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

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

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

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \leq 3 \wedge$$

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

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

$$s \geq 4 \wedge s > \mathbb{k} + \mathbb{k} \wedge$$

$${}_{fz}S_{j_{ik},j_{sa}^s}^{DO SD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \right)$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

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

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa}^{ik} - s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$f_z S_{j_{ik}, j_{sa}}^{DOSSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2) \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_i - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

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

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

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

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

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

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

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

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

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

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

$$s: \{j_s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s < s + \mathbb{k} \wedge$$

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

$$\begin{aligned} f_z S_{j_{ik}, j^{sa}}^{DOSD} &= \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_i+j_{sa}^{ik}-k-s+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \end{aligned}$$

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{l=1}^{D+l_s+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}} \sum_{(j_{ik}+n-\mathbf{l}_{ik}-k) \leq j_{sa}^{ik} \leq n_i-j_{sa}} \sum_{(n_i-j_s+1)} \\ \sum_{=n+\mathbb{k}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})} (l_s+j_{sa}^{ik}-k)!$$

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

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

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

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

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

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

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

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

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

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

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-k}^{l_s+j_{sa}-k} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik})}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_{ik}-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_i-j_{ik}-1)!}{(j^{sa}+j_{sa}-1)! \cdot (n_{ik}+j_{ik}-j^{sa})!} \cdot \\
 & \frac{(n_i-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j^{sa})!} \cdot \\
 & \frac{(n_i-k-j_{sa}^{ik})!}{(l_{sa}+j_{sa}-i-j_{sa}+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
 & \frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa})! \cdot (j^{sa}-l_{ik})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot \\
 & \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j^{sa}-n-l_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!} + \\
 & \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_i+j_{sa}-k-s+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \\
 & \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!}.
 \end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

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

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}, \quad l_i+n+j_{sa}-D-s)}^{\left(\right.} \sum_{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}^{\triangle} \\$$

$$\sum_{=n+\mathbb{k}}^{\left(\right.} \sum_{(n_{is}-\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-n_s)} \\$$

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{\substack{(l_i+n+j_{sa}^{ik}-D-s-1) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-1)}}^{\substack{(l_i+n+j_{sa}^{ik}-D-s-1) \\ (j^{sa}=l_i+n+j_{sa}-D-s)}} \sum_{n_{ik}=n+\mathbb{k}}^{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{n_{sa}=n-j^{sa}}^{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - n_{ik} - 1)!}{(l_{ik} - j_{ik} - n_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{sa} + \mathbb{k} - l_{ik} - 1)!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j^{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{\substack{(l_s+j_{sa}^{ik}-k) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}}^{\substack{(l_s+j_{sa}^{ik}-k) \\ (j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}} \sum_{n_{ik}=n+\mathbb{k}}^{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{n_{sa}=n-j^{sa}+1}^{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (\mathbf{j}^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

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

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+j_{sa}-n-l_{sa}} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \quad \sum_{n_i=n+\mathbb{k}}^n (n_{is}-\mathbb{k})! \cdot \sum_{n_{ik}=n_i-j_{sa}^{ik}-j_{sa}}^{(\mathbb{k})} (n_{ik}-\mathbb{k})! \\
& \quad \frac{(n_{is}-\mathbb{k}-\mathbb{k})!}{(n_{is}+j_{ik}-n-j_{sa}-\mathbb{k})! \cdot (n_{is}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
& \quad \frac{(-k-1)!}{(+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \quad (-l_i)!) \\
& \quad (0 + j^{sa} + \dots - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!)
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}) \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - j_{sa}^{ik} \wedge \\
& l_{ik} - j_{sa} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}) \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - j_{sa}^{ik} \wedge \\
& l_{ik} - j_{sa} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} >
\end{aligned}$$

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

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

$$\sum_{k=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{\substack{( ) \\ (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}, \\ l_i + n + j_{sa} - D - s)}^{l_{ik} + j_{sa}^{ik} - k - j_{sa}^{ik} + 1}}$$

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

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$f_z S_{j_{ik} j_{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa})!} \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa})!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\ \frac{(l_{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!}{(j_{ik} - j_{sa} - j_{sa} - l_{sa})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \\ \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{sa}+j_{sa}^{ik}-k)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!}.$$

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \mathbf{l}_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

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

$$m_i + \mathbb{k} (n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})$$

$$\sum_{\substack{n_{ik}=n_{is}+j_{sa}^{is} \\ (-j_{sa})}}^{n_{ik}} \sum_{\substack{(l_{ik}-k+1) \\ (j_{sa}^{ik})}}^{(l_{ik}-k+1)} (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})$$

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - s)!}$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j_{sa}^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa}^{sa} - \mathbf{s} - s)!}$$

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

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

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

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

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

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

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

$$l_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \vee$$

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

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

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

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

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

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

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

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

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

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{\substack{(l_{sa} + j_{sa}^{ik} - k - j_{sa} + 1) \\ (j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{sa} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{sa} - j_{ik} - n_{sa} + 1)!}{(l_{sa} - j_{ik} - n_{sa} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_{sa} - s)!}{(D - j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{l_s+s-\mathbf{n}} \sum_{\substack{(l_s + j_{sa}^{ik} - k) \\ (j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\infty} \\
& \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
& \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

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

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

$$\begin{aligned}
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& \mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee \\
& (D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge
\end{aligned}$$

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

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

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

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$s \geq 4 \wedge s > \mathbb{k} + \mathbb{k} \wedge$

$$f_{zS} S_{j_{ik}, j_{sa}}^{DO SD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{ik}-k+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

**gi** **u** **d** **u** **s** **u** **g** **i**

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

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

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

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

$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$

$\frac{(\mathbf{l}_i - s - j_{sa} - 1)!}{(\mathbf{l}_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot$

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

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

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

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

$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$fz_{l_k, j^{sa}}^{POSD} = \sum_{k=1}^{D-n+1} \sum_{i=l_k+n-D}^{(j_{sa}^{ik}-j_{sa}, j_{sa}^{ik}-j_{sa}+1)} \sum_{i_{sa}=l_i+n+j_{sa}-D-s}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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

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

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

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

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

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

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

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

**giULD**

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})}{(\mathbf{l}_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - j_{sa})}{(j_{ik} + j_{sa} - l_{sa} - l_{ik}) \cdot (j_{sa}^{ik} + l_{sa} - j_{sa})!}.$$

$$\frac{(\mathbf{n} + j_{sa} - \mathbf{l}_i - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{n_{is}=\mathbf{n}+\mathbb{k}}^{D+l_s+j_{sa}-l_{sa}} \sum_{(n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$f_z S_{i_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+k) \leq D}^{(l_i+n+j_{sa}-D-s-1)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{j_{sa}-k-s+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$D > n < n \wedge s = k \geq 0$$

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

$$s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 4 \wedge s = s - k \wedge$$

$$k_{2,2} = 1$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-k}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa})}^{\left(\right.} \\
 & \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
 & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{sa}^{ik}-l_i-s-1)!} \cdot \\
 & \frac{(D-l_i)!}{(D+j_{sa}^{ik}+s-\mathbf{n}-j_{sa})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{sa}-s)!} \\
 & ((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
 & j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq \mathbf{n} + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\
 & (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
 & j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq \mathbf{n} + j_{sa} - s \wedge \\
 & l_{sa} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee \\
 & (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
 & j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq \mathbf{n} + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\
 & (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
 & j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq \mathbf{n} + j_{sa} - s \wedge \\
 & l_{sa} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa})
 \end{aligned}$$

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

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

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

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

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

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

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

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

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

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

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

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{\substack{(j_{ik}=l_i+k) \\ (j_{sa}^{ik}=D-s)}}^{\substack{(l_{sa}+j_{sa}^{ik}-k) \\ (l_{ik}-j_{ik}-k)}} \sum_{n=n+\mathbb{k}}^{\infty} \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{\infty} \sum_{\substack{(\ ) \\ (n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}^{\infty}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}^{ik}+j_{sa}-j_{sa})} \sum_{a=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-1)+1}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k})} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j - n - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} - j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
\end{aligned}$$

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

$$\sum_{k=1}^{i^{l-1}} \sum_{\substack{j_{sa}=j_{sa}^{ik} \\ j^{sa}=j_{sa}}}^{\mathbf{l}_{sa} - i^{l-1}}$$

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

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

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

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

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

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

$$\sum_{k=1}^{i^{l-1}} \sum_{\substack{( ) \\ (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}}^{\mathbf{l}_s} \sum_{j^{sa}=j_{sa}+1}^{l_s + j_{sa}-k}$$

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

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\mathbf{n}} \sum_{\substack{(j_{ik}=j_{sa}^{ik}) \\ (j_{ik}-j_{sa}^{ik}=\mathbb{k})}} \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i - j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}.$$

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

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

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

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

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

$$l_{sa} \leq D + j_{sa} - \mathbf{l}_s \wedge \mathbf{l}_i \leq D + s - n$$

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

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

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, \dots, j_{sa}^{i-1}, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s < s + \mathbb{k} \wedge$$

$$z \geq 1$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DO SD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1}$$

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

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

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

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

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

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} - l_{sa} - j_{ik} - j_{sa})!}.$$

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

$$\sum_{k=i}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{\infty} \sum_{j^{sa}=j_{sa}}^{l_{sa}-i_l+1}$$

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

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

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

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

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

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

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

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

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

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

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

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

$$\sum_{k=l}^{\infty} \sum_{(j_{ik}=j_{sa}^{lk})}^{\infty} \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i+j_{ik}-s-j_{sa}^{ik}-\mathbb{k})!}{(n_i+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}-s)!}.$$

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

$$D \geq \mathbf{n} < n \wedge s \leq n \wedge j_{sa} - \mathbf{n} \wedge$$

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

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

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

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

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

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

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

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

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \left( \sum_{k=1}^l \sum_{(j_{ik}=j^{sa}+j^{ik}-j_{sa})}^{\binom{n}{l-1}} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}+1} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(j_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - n + 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=l}^{\binom{n}{l}} \sum_{(j_{ik}=j_{sa})}^{\binom{n}{l}} \sum_{j^{sa}=j_{sa}}^{j^{sa}-\mathbb{k}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \right) +
\end{aligned}$$

$$\left( \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=j_{sa}+2}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

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

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

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

$$\sum_{k=1}^n \sum_{l \in \binom{j_{ik} = j_{sa}^{ik}}{j^{sa} = j_{sa}}} \sum_{j^{sa} = j_{sa}}$$

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

$$\frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}.$$

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

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

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

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

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

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

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

$$j_{sa} \leq j_{sa}^{i^s} - 1 \wedge j_{sa}^{i^s} \leq j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{i^s} - \mathbb{k} \wedge \\ s \in \{j_{sa}^{i^s}, \dots, j_{sa}^{i^s} - j_{sa} - \mathbb{k}\} \wedge$$

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

$$\mathbb{K}_z : z = \dots \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \left( \sum_{k=1}^{i-1} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = j_{sa} + 1}^{l_s + j_{sa} - k} \right. \\ \left. \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \right. \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right).$$

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

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

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

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

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

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

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

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

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

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

$$\left( \sum_{k=1}^{i^{l-1}} \sum_{\substack{(j_{ik}=j_{sa}^{ik}+1) \\ (j_{ik}-j_{sa}^{ik}+1)}}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=j_{sa}+2}^{l_s+j_{sa}-k} \right.$$

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

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

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

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

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

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

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

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

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

$$\sum_{k=1}^{l-1} \sum_{\substack{( ) \\ n_{is}=j^{sa}+j_{sa}^{ik}}}^{} \sum_{\substack{l_s+j_{sa}-k \\ j_{sa}+1}}^{} \\$$

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

$$\sum_{k=\mathbf{l}}^n \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{} \sum_{j^{sa}=j_{sa}}^{} \\$$

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

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

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

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

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

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

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

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

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

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

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

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

$$f_{2, i, k, l, s, a}^{DOSD} = \left( \sum_{k=1}^{n_i-1} \sum_{\substack{j_{ik}=j_{sa}^{ik}+1 \\ (j_{ik}-j_{sa}^{ik}) \leq n_i-1}}^{(\mathbf{l}_{ik}-k-1)} \sum_{\substack{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\ n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \leq j^{sa} \leq n_i-1}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \right.$$

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

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

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

$$\left. \frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \right.$$

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

$$\sum_{k=1}^{\mathbf{l}} \sum_{\substack{(j_{ik}=j_{sa}^{ik}) \\ (j_{ik}=j_{sa}^{ik})}} \sum_{j^{sa}=j_{sa}}$$

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

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

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

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

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

$$\left( \sum_{i=1}^{i_{sa}} \sum_{(j_{ik}=j_{sa}+1)}^{(n_i-j_{ik}+1)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \right)$$

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

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

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

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

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

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

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

$$\sum_{k=_il}^{\left(\phantom{l}\right)} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{sa}-_il+1} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-_il+1}$$

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

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

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

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

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - l_{ik} - s)!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - l_{ik})!}.$$

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

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

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

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

$$\sum_{k=_l}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

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

$$\frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}.$$

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

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

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

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

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

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

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

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

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

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

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

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

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

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

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

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

$$\sum_{k=1}^n \sum_{l \in \binom{[n]}{k}} \sum_{j_{sa}=j_{sa}^{ik}}$$

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

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

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

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

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

$$\left( \sum_{k=1}^{i_l - l_{ik} - j_{sa}^{ik} - k} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{i_l - l_{ik} - j_{sa}^{ik} - k} \sum_{l_{sa}=k+1}^{l_{sa}-k+1} \right)$$

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

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

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

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

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

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

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

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

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{\left(\right)}$$

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

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

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

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

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

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - \mathbb{k} \wedge$$

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

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

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

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

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

$$\sum_{k=-i}^{\binom{\mathbf{l}}{2}} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}} \sum_{\substack{l_{sa}-i \\ j^{sa}=l_{sa}+n-D}}^{l_{sa}-i+1}$$

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

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

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

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

$$D - \mathbf{l}_i - s \leq \mathbf{n} \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

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

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

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

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

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

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

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

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

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

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \frac{\sum_{k=1}^{D+l_{ik}+j_{sa}-n-j_{sa}^{ik}+1} \sum_{l_s=j_{sa}-k}^{l_s+j_{sa}-n-D} \sum_{n_i=n+\mathbb{k}(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{n_i=(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \frac{(n_i-n_{ik}-1)!}{(n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}^{ik}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-k-j_{sa}^{ik})!}{(l_{ik}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}}{(D+j_{sa}-l_{sa}-s)!} +$$

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

$$\sum_{k=1}^{\mathbf{l}_{ik} + j_{sa} - \mathbf{n} - s} \sum_{\substack{j_{ik} = j_{sa} + 1 \\ j_{ik} - j_{sa} + 1}}^{\mathbf{l}_{ik} - j_{sa}^{ik} + 1} \sum_{\substack{j_{sa} = l_s + j_{sa} - k + 1 \\ j_{sa} - j_{ik} + 1}}^{l_s + j_{sa} - k + 1}$$

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik} - 1)! \cdot (j_{sa} - j_{ik} - l_{sa} - j_{sa})!}.$$

$$\frac{(\mathbf{n} + j_{sa} - \mathbf{l}_{sa} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

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

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

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

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

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

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

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

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

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

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

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

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

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - j_{sa}^{ik} \leq n + j_{sa} \wedge$$

$$D \leq n < n \wedge l_i - \mathbb{k} \geq 0 \wedge$$

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

$$s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^n\} \wedge$$

$$s \geq 4 \wedge s = s +$$

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - j_{sa} - \mathbf{l}_{sa} - s)!}{(D - j^{sa} - \mathbf{n} - l_{sa} + 1)! \cdot (\mathbf{n} + j_{sa} - \mathbf{l}_{sa} - s)!} +$$

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

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

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

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

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

$$\sum_{k=1}^{D+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\binom{\phantom{x}}{x}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-i_l+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n_i+j_{sa}+1}^{n_{ik}+j_{sa}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(n_i - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (j_{sa} + j_{ik} - j_{sa} - j^{sa})!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\ \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) - \\ \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\binom{\phantom{x}}{x}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{l_{ik}-k+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\binom{\phantom{x}}{x}} (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}) \\ \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \\ \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

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

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

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

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

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

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

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

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

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

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

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

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

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

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

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

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Biggr) +$$

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

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{j}_{ik} - j_{sa})!}.$$

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

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

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

$$\sum_{k=\substack{(\ ) \\ i}}^n \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{\substack{( ) \\ l-1}} \sum_{\substack{l_{sa}-i \\ l_{sa}+n-D}}^{l_{sa}-i \\ l+1}$$

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

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

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

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

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \times$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{\substack{(l_s+j_{sa}^{ik}-k) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-k)}} \sum_{\substack{(n_i-j_s) \\ (n_i=n+\mathbb{k} \text{ } (n_{ls}+\mathbb{k}+j_{sa}^{ik}-j_{ik}))}} \sum_{\substack{(n_{ik}-j_{sa}^{ik}) \\ (n_{ik}=n_i-j_{sa}^{ik}-j_{sa})}} \sum_{\substack{(n_{is}-\mathbb{k}) \\ (n_{is}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}} \times$$

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

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

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

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

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

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

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

$$l_{ik} \leq D + s - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

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

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

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

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

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

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-k+1}$$

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

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

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

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

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

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

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

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

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

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

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

$$\frac{(l_{ik} - \mathbb{l} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - \mathbb{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

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

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

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

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

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

$$\sum_{k=l}^{(\Delta)} \sum_{(j_{ik}=j_{sa}^{lk})}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i+j_{ik}-s-j_{sa}^{ik}-\mathbb{k})!}{(n_i+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}-s)!}.$$

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

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

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

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

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

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

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

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

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

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

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

$${}_{fz}S_{j_{ik}, j^{sa}}^{DO SD} = \sum_{k=1}^{il-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

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

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

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

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

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

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

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

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

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - {}_i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - {}_i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{\mathbf{i}\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(\mathbf{i}\mathbf{l}+j_{sa}-k)} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+j_{sa}-j_{ik})}^{(n_i-\mathbb{k}+1)} \sum_{(n_{ik}=n_{is}+j_{sa}-j_{sa}^{ik})}^{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-\mathbb{k})} \\ \sum_{(n_{is}-s-\mathbb{k})!}^{(\ )} \frac{(n_{is}-s-\mathbb{k})!}{(n_i+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \\ \frac{(-k-1)!}{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \\ \frac{(D-\mathbf{l}_i)!}{(D+j_{sa}+s-\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}^{ik}-s)!} -$$

$$\sum_{k={}_i\mathbf{l}}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{(\ )}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}}^{(\ )} \\ \frac{(n_i+j_{ik}-s-j_{sa}^{ik}-\mathbb{k})!}{(n_i+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}-s)!}.$$

$$\frac{(D-\mathbf{l}_i)!}{(D+s-\mathbf{n}-\mathbf{l}_i)! \cdot (\mathbf{n}-s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, k, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + k \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 & \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}-j_{sa})} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-k} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +
 \end{aligned}$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - i\mathbf{l} - j_{ik})!}{(l_{ik} + j^{sa} - l_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + \mathbb{k} - l_{ik} - s)!}{(j_{ik} + j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j^{sa} - l_{sa} - s)!}{(D - j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i\mathbf{l}}^{l_{ik}-i\mathbf{l}+1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}^{l_{sa}-i\mathbf{l}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - i\mathbf{l} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{} \sum_{\substack{( ) \\ (j^{sa}=j_{sa}+1)}}^{} \frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{is}=n_i-j_{ik}+1)}}^{} \sum_{\substack{( ) \\ (n_{ik}=n_{is}-j_{sa}-j_{ik}-j^{sa}-\mathbb{k})}}^{} \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})! \cdot (j_{sa}^{ik}-j_{ik}-s)!} \cdot \frac{(-k-1)!}{(j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D-l_i)!}{(D+j^{sa}+s-\mathbf{n}-l_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik}=j_{sa})}}^{} \sum_{\substack{( ) \\ (j^{sa}=j_{sa})}}^{} \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{ik}=n_i-j_{ik}+1)}}^{} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{} \frac{(n_i+j_{ik}-s-j_{sa}^{ik}-\mathbb{k})!}{(n_i+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}-s)!} \cdot \frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)!\cdot (\mathbf{n}-s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{sa} - j_{sa} + 1 > \mathbf{l}_s \wedge$$

$$\mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_{ik}, j^{sa}}^{DOS} = \sum_{i=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n_i-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{l_{ik}-i_l+1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\binom{l_{ik}-i_l+1}{l_{sa}-i_l+1}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\binom{n_i-j_{ik}+1}{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}} \sum_{n_{sa}=n-j^{sa}}^{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}{n_{sa}-j^{sa}}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} - n - \mathbb{k})! \cdot (n - j^{sa})!} \cdot \\
& \frac{(n_{sa} - i_l)^{i_l-1}}{(l_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + n - l_{ik} - s)!}{(j_{ik} + i_l - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + i_l - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{i_l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{\binom{l_s+j_{sa}^{ik}-k}{l_{sa}-i_l+1}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\binom{n_i-j_{sa}+1}{n_{sa}-j_{sa}^{ik}}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{\binom{n_i-j_{sa}+1}{n_{sa}-j_{sa}^{ik}}} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{\binom{}{}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\binom{}{}} \\
& \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1}^n \sum_{l \in \binom{[n]}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}} \frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i - \mathbb{k})! \cdot (\mathbf{n} - s)!}$$

$$\begin{aligned} D \geq \mathbf{n} < n \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge \\ j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge \\ j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \\ D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge \\ j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} \rightarrow j_{sa}^i - 1 \wedge \\ s: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \end{aligned}$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \mapsto 1$$

$$S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{l-1} \sum_{l_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\lfloor \frac{\mathbf{l}}{i} \rfloor} \sum_{\substack{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}}^{\lfloor \frac{\mathbf{l}}{i} \rfloor} \sum_{j_{sa}=j_{sa}}^{l_{ik}+j_{sa}-\lfloor \frac{\mathbf{l}}{i} \rfloor-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_i-j_{ik}+1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (j_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \lfloor \frac{\mathbf{l}}{i} \rfloor - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \lfloor \frac{\mathbf{l}}{i} \rfloor + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \Big) +$$

$$\left( \sum_{k=1}^{\lfloor \frac{\mathbf{l}}{i} \rfloor-1} \sum_{\substack{(j^{sa}+j_{sa}^{ik}-j_{sa}-1) \\ (j_{ik}=j_{sa}^{ik}+1)}}^{j^{sa}+j_{sa}^{ik}-j_{sa}-1} \sum_{j_{sa}=j_{sa}+2}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_i-j_{ik}+1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_{ik}-k+1)} \sum_{n_{sa}=\mathbf{n}+1}^{l_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^{n} \sum_{(n_i-n_{ik}-1)}^{(n_i-n_{ik}-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i^l}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{(j_{ik}=j_{sa}^{ik})}^{\mathbf{l}_{ik}+j_{sa}-i^l-j_{sa}^{ik}+1} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - {}_i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - {}_i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{n_i=1}^{\mathbf{l}} \sum_{(j_{ik}=j_{sa})=l_{ik}+j_{sa}}^{\left(\begin{array}{c} n_i \\ l \end{array}\right)} \sum_{j_{sa}=j_{sa}+2}^{i\mathbf{l}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_{sa})=\mathbb{k}-j_{ik}+1}^{\left(\begin{array}{c} n_i-j_{ik} \\ \mathbb{k} \end{array}\right)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - {}_i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - {}_i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\begin{array}{c} i\mathbf{l}-1 \\ k \end{array}\right)} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa})}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - \mathbf{l}_s - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_{sa}^s + s - \mathbf{n} - l_i - 1)! \cdot (\mathbf{n} + j_{sa}^s - j_{sa}^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}_i} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^s=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_{sa}+j_{ik}-j_{sa}^{sa}-\mathbb{k})}^{(n_i-j_s+1)} n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}$$

$$\frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_{sa} = D + j_{sa}^s \wedge \mathbf{n} < n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{sa} + 1 \leq j_{ik} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{sa} - 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D \geq \mathbf{n} < r \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} - j_{sa} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \left( \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - n_{sa} - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{ik} - k - 1)!}{(l_{ik} - j_{ik} - k - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^{i-l} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik}-i-l+1)}$$

$$\sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - i - l - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - i - l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \Big) +$$

$$\begin{aligned}
& \left( \sum_{k=1}^{i_l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - k + 1)!}{(l_{ik} - j_{ik} - k - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa} - l_{ik} - s)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{i_l} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik}-i_l+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-i_l+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - i_l - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

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$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{n_i=n+\mathbb{k}}^{(n_i-\mathbf{l}_i+1)} \sum_{(n_{is}=\mathbf{n}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{sa}^{ik}-\mathbb{k})} \frac{(n_{is} - s - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(n_i - s - \mathbb{k} - 1)!}{(n_i + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{( )}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{( )} \frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$D > \mathbf{n} < n$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik},j_{sa}}^{DO\!SD} = \sum_{k=1}^{D+l_{ik}+j_{sa}-1} \sum_{j_{sa}=l_{sa}+n-D}^{l_{ik}+1} \frac{\left(\begin{array}{c} (n_i-n_{ik}-1)! \\ (j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)! \end{array}\right) \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \frac{(\mathbf{l}_{ik}-k-j_{sa}^{ik})!}{(\mathbf{l}_{ik}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}^s-s)!}}{\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^s+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}} \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j_{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right. \\ \left. \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^s+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}} \right)$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{ik}^{ik})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-\mathbf{l}_{sa}-s-1} \sum_{(j_{ik}=j_{sa}^{ik}+1) \leq j^{sa} \leq k+j_{sa}-k-j_{sa}^{ik}+2}^{\mathbf{l}_{ik}-k-j_{sa}^{ik}} \sum_{n_i=n+j_{sa}^{ik}+1 \leq n_{ik}=n+\mathbb{k}-j_{ik}+1}^{l_{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}-j_{sa}^{ik}+2}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - l_{sa} - l_{ik} - (j_{sa}^{ik} - j_{sa}) - 1)!}.$$

$$\frac{(l_{sa} + j_{sa} - \mathbf{l}_{sa} - s)!}{(\mathbf{l}_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{l}_{ik} - j_{ik} - \mathbf{l}_{ik} + n - D}^{(j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - 1)} \sum_{j^{sa} = l_{sa} + \mathbf{n} - D}^{\mathbf{l}_{ik} + j_{sa} - \mathbf{l}_{ik} - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_{ik} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l}_{ik} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l_{ik}} \sum_{j_{ik}=l_{ik}+n-D}^{\left(l_{ik}-i_l+1\right)} \sum_{j^{sa}=l_{ik}+j_{sa}-i_l-j_{sa}^{ik}+2}^{l_{sa}-i_l+1}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-k}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - i_l - k)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - i_l - k)!}{(l_{ik} - i_l - k - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + s - l_{ik} - j^{sa})!}{(j_{ik} + i_l - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{+ i_l (l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{\substack{D+l_s+s-i_l-k+l_i \\ =1}}^{D+l_s+s-i_l-k+l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-k)}^{\left(\right)}$$

$$\frac{(n_{is} - s - k)!}{(n_{is} + j_{ik} - n - j_{sa}^{ik} - k)! \cdot (n + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}}^{SD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-j_{sa}^{ik}+1} \sum_{\substack{(l_{ik}-k) \\ (j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}} \sum_{\substack{n_i=j_{ik}+j_{sa}-j_{sa}^{ik} \\ n_i=n+\mathbb{k} \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{(n_i-j_{ik}+1) \\ n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}} \sum_{\substack{n_{sa}=n-j^{sa}+1 \\ n_{sa}=\mathbf{n}-j^{sa}+1}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) +$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (n_i + j_{ik} - n_{sa} - j^{sa})!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{sa}^{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\ \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=l}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{(j_{ik}=l_{ik}+n-D)}^{l_{ik}+j_{sa}-l-1} \sum_{j^{sa}=l_{sa}+n-D}^{l-l-j_{sa}^{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - {}_i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - {}_i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_{ik} = l_{ik} + n - D)}^{(l_{ik} - {}_i\mathbf{l} + 1)} \sum_{(j_{sa} = j_{sa}^{ik} + n - l_{sa} - 1)}^{(l_{sa} - {}_i\mathbf{l} - j_{sa}^{ik} + 2)}$$

$$\sum_{n_i=n}^n \sum_{(n_{ik}=n+{}_{ik}\mathbf{l}+1)}^{(n_i-j_{ik})} \sum_{(n_{sa}=n-j^{sa}+1)}^{(n_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2) \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - {}_i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - {}_i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{(\mathbf{l}_s + j_{sa}^{ik} - k)} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}.$$

$$\frac{(\mathbf{l}_s-k-1)!}{(\mathbf{l}_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-s)!}$$

$$\frac{(D-\mathbf{l}_i)!}{(D+j^{sa}+s-\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}^{sa}-s-a-s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}$$

$$\mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - \mathbb{k} \wedge j_{sa}^s \leq j_{sa}^{sa} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + 1 \wedge$$

$$\mathbb{k} \wedge z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\begin{aligned}
& \frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{\mathbf{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{\left(\right)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}+\mathbb{s}-j^{sa}-\mathbb{k}}^{(n_{ik}-j_{ik}-1)} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} - \\
& \sum_{k=1}^{\mathbf{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{\mathbf{l}_{sa}-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\right)} \\
& \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
& \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{\binom{(\ )}{( )}} \sum_{j^{sa}=j_{sa}}^{\binom{(\ )}{( )}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\binom{(\ )}{( )}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}}^{\binom{(\ )}{( )}} \frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i - \mathbb{k})! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - s \wedge j_{sa}^s \leq j_{sa}^{ik} - \mathbb{k} \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z. z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{i-1}{( )}} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\infty} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik}-j_{sa})}} \sum_{\substack{( ) \\ (n_{ik}+j_{ik}-j_{sa}=j_{sa})}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_i-j_{ik}+1)}} \sum_{\substack{( ) \\ (n_{ik}+j_{ik}-j_{sa}=n-j^{sa}+1)}}$$

$$\frac{(n_i - j_{ik} + 1)!}{(j_{ik} - 2, n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{l_i-n-l_i} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{\substack{( ) \\ (l_{sa}-k+1) \\ (j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s)}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\mathcal{C}_{i_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i_{ik}-1} \sum_{(i_{ik} = i_k) \wedge (j_{sa} = j_{sa}^{ik} - j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\binom{\mathbf{n}}{\mathbf{l}}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

The logo features the word "GULDUS" in a large, bold, black font. The letters are intricately designed to contain mathematical expressions, particularly binomial coefficients and summations, which define the structure of each letter.

- G:**  $\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ n_{ik}=n_i-j_{ik}+1}} \sum_{j_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{(n_i-j_{ik}+1)}$
- U:**  $\frac{\binom{n_{ik}-j_{ik}-1}{(n_{ik}-j_{ik}-1)!} \cdot \binom{n_{ik}+j_{ik}-n_{sa}-j^{sa}}{(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}}{\binom{n_{sa}-1}{(n_{sa}-1)!} \cdot \binom{n_{sa}+j^{sa}-n-1}{(n_{sa}+j^{sa}-n-1)!}}$
- D:**  $\frac{\binom{D+j_{sa}-l_{sa}}{(D+j_{sa}-l_{sa})!} \cdot \binom{n}{(n-l_{sa})!}}{\binom{D+l_{sa}-l_{sa}}{(D+l_{sa}-l_{sa})!} - \binom{D+j_{sa}-l_{sa}}{(D+j_{sa}-l_{sa})!}}$
- L:**  $\frac{\binom{i^{l-1}}{i^{l-1}} \cdot \binom{n_{sa}-i_{sa}-k-j_{sa}^{ik}+1}{(n_{sa}-i_{sa}-k-j_{sa}^{ik}+1)!}}{\binom{k_{sa}-(j_{ik}=j^{sa}, j_{sa})}{k_{sa}-(j_{ik}=j^{sa}, j_{sa})!} \cdot \binom{j_{sa}-j_{ik}+1}{j_{sa}-j_{ik}+1!}}$
- S:**  $\frac{\sum_{n=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}} \sum_{j_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{(n_i-j_s+1)}}{\binom{(n_{is}-s-\mathbb{k})!}{(n_{is}-s-\mathbb{k})! \cdot (n-j_{sa}^{ik}-\mathbb{k})!} \cdot \binom{(n+j_{sa}^{ik}-j_{ik}-s)!}{(n+j_{sa}^{ik}-j_{ik}-s)!}}$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\mathcal{C}_{i_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i_{ik}-1} \sum_{(i_{ik} = i_k) \wedge (j_{sa} = j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\binom{\mathbf{n}}{s}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
 & \frac{(D + l_{sa} - l_{sa})!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - \mathbf{n})!} - \\
 & \frac{(D + l_s + s - l_i)!}{(D + l_s + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - \mathbf{n})!} - \\
 & \frac{(l_{sa} - k - j_{sa} + 1)!}{(l_{sa} - k - j_{sa} + 1)! \cdot (l_{sa} - l_{sa})!} - \\
 & \frac{(l_i - k - j_{ik} + 1)!}{(l_i - k - j_{ik} + 1)! \cdot (l_i - l_i)!} - \\
 & \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} - s - \mathbb{k})! \cdot (n_{is} - \mathbf{n} - j^{ik} - \mathbb{k})!} \cdot \\
 & \frac{(l_s - k - 1)!}{(l_s + j^{ik} - j_{ik} - k)! \cdot (j_{ik} - j^{ik} - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \\
 & D \leq \mathbf{n} \leq \mathbf{n} \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
 & j_{sa}^{ik} \leq j_{ik} \leq n^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge \\
 & l_i \leq D + s - \mathbf{n} \wedge \\
 & D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge
 \end{aligned}$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{sa}-j_{sa}^{ik}}^{(l_{ik}-k+1)} \sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=\underline{i}l}^{\underline{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\underline{l}} \sum_{j^{sa}=j_{sa}}^{(l_{ik}-k+1)} \sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

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$$\begin{aligned}
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} - \\
 & \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_s+1)} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_i-j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k})} \\
 & \frac{(n_i-s-\mathbb{k})!}{(n_{is}+j_{ik}-n-j_{sa}^{ik}-\mathbb{k})! \cdot (n+j_{sa}-j_{ik}-s)!} \cdot \\
 & \frac{(l_s-k-1)!}{(l_s+j_{sa}-j_{ik}-n) \cdot (j_{ik}-j_{sa}^{ik}-1)!} \\
 & \frac{(D-s)!}{(D-l_i) \cdot (n+j_{sa}-j^{sa}-s)!} - \\
 & \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}}^{( )} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{( )} \\
 & \frac{(n_i+j_{ik}-s-j_{sa}^{ik}-\mathbb{k})!}{(n_i+j_{ik}-n-j_{sa}^{ik}-\mathbb{k})! \cdot (n-s)!} \cdot \\
 & \frac{(D-l_i)!}{(D+s-n-l_i)! \cdot (n-s)!} \\
 D \geq n < r \wedge l_s \leq D - n + 1 \wedge \\
 j_{sa} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
 j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge \\
 l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge \\
 D + s - n < l_i \leq D + l_s + s - n - 1 \wedge
 \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DO SD} = \sum_{k=1}^{i-1} \sum_{\substack{(l_{ik}-k+1) \\ (j_{ik}=j_{sa}^{ik}) \\ (n_{sa}=j_{ik}+1) \\ (n_{sa}=j_{sa}+1)}} \frac{\Gamma}{\Gamma(n_i-j_{ik}+1)} \cdot \frac{\Gamma(n_{ik}+j_{ik}-j_{sa}-\mathbb{k})}{\Gamma(n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{\Gamma(n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{\Gamma(l_{ik}-j_{sa}-1)!}{(l_{ik}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^i-1)!}.$$

$$\frac{(D+j_{sa}-l_{sa}-s)!}{(D+j^{sa}-\mathbf{n}-l_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} +$$

$$\sum_{k=1}^n \sum_{\substack{(l_{ik}=j_{sa}^{ik}) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{(n_{sa}=n-j^{sa}+1) \\ (n_{sa}=n-j^{sa}+1)}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}) \\ (n_{sa}=n-j^{sa}+1)}} \frac{\Gamma(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^i}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_i+j_{sa}-j_{ik}-j_{sa}-\mathbb{k})}^{(n_{is}-\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{ik}-s}^{n_{is}} \sum_{(n_{sa}=n_{ik}+j_{sa}-j_{ik}-j^{sa}-\mathbb{k})}^{(n_{sa}-\mathbb{k}+1)}$$

$$\frac{(n_{is} - \mathbb{k} + 1)!}{(n_{is} + j_{ik} - \mathbf{n} - \mathbb{k} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(l_i - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_i)!}{(D + j^{sa} + \dots - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \wedge D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j^{ik} + 1 = l_s \wedge l_s + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} - l_i \leq D + \dots + s - \mathbf{n} - 1 \wedge$$

$$D \geq \dots < n \wedge I \geq \dots \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\{s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DO\!SD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{n} - j_{ik})!}{(l_{sa} + j_{ik} - \mathbf{n} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{\infty} \sum_{j^{sa}=j_{sa}}^{\infty}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa})}^{(\ )} \\
 & \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
 & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{sa}^{ik}-l_i-s-1)!} \cdot \\
 & \frac{(D-l_i)!}{(D+j_{sa}^s+s-\mathbf{n}-j_{sa}^{ik}-j_{sa}^{sa}-s)!} \cdot
 \end{aligned}$$

$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + s - \mathbf{n} < l_i \leq D + l_s - (s - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq l_i + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$(l_s + j_{sa} - s < l_{sa} \leq D - (l_s + j_{sa} - \mathbf{n} - 1)) \wedge$

$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa} \leq j_{sa}^{i-1} \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s \in \{j_{sa}^s, \dots, j_{sa}^i, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$

$s \geq 4 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_Z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_i - j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{ik})!}{(\mathbf{l}_{ik} + j_{ik} - k - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + \mathbb{k} - l_{ik} - s)!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D - j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=\mathbf{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_i+j_{sa}-k-s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_s} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{} \sum_{\substack{\mathbf{l}_{i+} \\ j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}}^{l_i+j_{sa}-i \mathbf{l}-s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n_i-j_{ik}+1)}}^{} \sum_{\substack{( ) \\ (n_{sa}=n_i-j_{sa}+1)}}^{n_{ik}+j_{sa}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_k - 1)!}{(n_i - n_k - 2)! \cdot (n_i - n_k - j_{ik} + 1)}.$$

$$\frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (j_{sa} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{} \sum_{\substack{\mathbf{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+1 \\ j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^n \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}^{} \sum_{\substack{( ) \\ (n_{is}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$

$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} - s = \mathbb{k} - 1 \wedge$

$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^l\}$

$s \geq 4 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$\beta_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-k-s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{i-1} \sum_{\substack{(j_{ik} = l_i + n + j_{sa}^{ik} - D) \\ (n_{ik} = l_i + n + j_{sa}^{ik} - D)}}^{(l_{ik} - k + 1)} \sum_{\substack{(l_i + j_{sa} - j_{ik} - k - s + 1) \\ (n_{ik} + j_{ik} - j^{sa} - k)}}^{(l_{i+1} - j_{sa} - k - s + 1)}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = n + \mathbb{k} - j_{ik} + 1)}}^{(n_i - j_{ik} + 1)} \sum_{\substack{(n_{ik} + j_{ik} - j^{sa} - \mathbb{k}) \\ (n_{sa} = n - j^{sa} + 1)}}$$

$$\frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^i \sum_{\substack{(j_{ik} = j_{sa}^{ik}) \\ (j^{sa} = l_i + n + j_{sa} - D - s)}}^{( )} \sum_{\substack{(l_i + j_{sa} - i) \\ (l_{i+1} - j_{sa} - s + 1)}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = n + \mathbb{k} - j_{ik} + 1)}}^{(n_i - j_{ik} + 1)} \sum_{\substack{(n_{ik} + j_{ik} - j^{sa} - \mathbb{k}) \\ (n_{sa} = n - j^{sa} + 1)}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{\substack{(l_{ik}-k+1) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-l_{sa}-k) \wedge j^{sa}=j_{ik}+j_{sa}-k}} \sum_{\substack{(n_{is}+j_{is}^{ik}-l_{sa}-k) \wedge (n_{sa}=n_{ik}+j_{ik}-j^{sa}-k) \\ (n_{is}=n_{is}+j_{is}^{ik}-l_{sa}-k) \wedge (n_{sa}=n_{ik}+j_{ik}-j^{sa}-k)}} \cdot$$

$$\sum_{\substack{(n_{is}+j_{is}^{ik}-l_{sa}-k) \wedge (n_{sa}=n_{ik}+j_{ik}-j^{sa}-k) \\ (n_{is}=n_{is}+j_{is}^{ik}-l_{sa}-k) \wedge (n_{sa}=n_{ik}+j_{ik}-j^{sa}-k)}} \cdot$$

$$\frac{(s - \mathbb{k})!}{(n_{is} + j_{is}^{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(\mathbf{l}_i + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + j_{sa}^{ik} = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}+1)}^{(j^{sa}+j_{ik}-j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \\ \frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - 1 + 1)! \cdot (j_{ik} - j_{sa} - 1)!} \\ \frac{(l_{ik} + l_s - l_{sa} - j^{sa})!}{(j_{ik} + l_s - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_i+j_{sa}-k-s+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}^{ik}-l-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}+1)}^{(n_i-j_{ik}-1)} \sum_{n_{ik}+j_{ik}=n-\mathbf{j}^{sa}+1}^{n_{ik}+j_{ik}-\mathbf{j}^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik})!}{(n_i - 2) \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(\mathbf{n} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}^{ik}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{s+1})}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{l_s+j_{sa}-k}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DO SD} = \sum_{l=1}^{\lfloor \frac{D-1}{2} \rfloor} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n_i-j_{ik}+1)-D-s-1} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-k-s+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{\substack{(l_s + j_{sa}^{ik} - k) \\ (j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - s)}}^{} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{l_i + j_{sa} - k - s + 1}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 1)}}^{} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - n_{ik} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - n_{ik} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^l \sum_{\substack{(\ ) \\ (j_{ik} = j_{sa}^{ik})}}^{} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{l_i + j_{sa} - l - s + 1}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 1)}}^{} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{j^{sa}=j_{sa}+j_{sa}-j_{sa}^{ik}}^{\mathbf{l}_s+j_{sa}^{ik}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_i-j_{sa}-j_{sa}-j_{ik})}^{(n_i-\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_s+j_{sa}-j_{sa}-j_{sa}-j_{ik}}^{(n_i-s-\mathbb{k})}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-\mathbb{k})!} \cdot$$

$$\frac{(-k-1)!}{(n_{is}+j_{sa}-j_{sa}-k)! \cdot (j_{ik}-j_{sa}-1)!} \cdot$$

$$\frac{(\mathbf{l}_i)!}{(D-\mathbf{l}_i)!} \cdot$$

$$\frac{(D+j^{sa}+\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}{(D+j^{sa}+\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}.$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$k_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+1)}^{(j_{ik}-j_{sa}-l_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}^{l_{sa}-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}-\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - \mathbb{k})! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \mathbf{l}_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{l-1} \sum_{\substack{j_{sa}=j_{sa}^{ik} \\ j^{sa}=j_{sa}}}^{l_{sa}-i_{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}-j^{sa}-\mathbb{k}) \\ n_i=n_{sa}+1 \\ n_i-k-(n_{ik}=n+\mathbb{k}+j_{ik}+1)}}^{l_{sa}-i_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - j_{ik} - 1)!}{(j_{ik} - j_{sa} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_i - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\mathbf{n}} \sum_{\substack{(j_{ik} = j_{sa}^{ik}) \\ (j_{ik} \geq j_{sa}^{ik})}} \sum_{\substack{(s \\ = j_{sa})}}$$

$$\sum_{n_i=n+\mathbb{k}}^{\mathbf{n}} \sum_{\substack{(j_{ik} = j_{sa}^{ik}) \\ (j_{ik} \geq j_{sa}^{ik} + 1)}} \sum_{\substack{(s \\ = j_{sa} + j_{ik} - j^{sa} - \mathbb{k})}}$$

$$\frac{(n_i - j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} \wedge \mathbf{l}_i \leq D - \mathbf{n}) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa},$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 = \mathbf{l}_s \wedge l_{ik} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n},$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$l_{ik} + j_{sa} - j_{sa}^{ik} \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{ik}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_{ik} - j^{sa} - \mathbf{n} + 1)!}{(n_{ik} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - 1 + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{ik} + l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}+1)} \sum_{j^{sa}=j_{sa}}^{l_{sa}-i+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{\mathbf{l}_{ik} - k + 1} \sum_{j^{sa} = j_{sa} + j_{sa} - j_{sa}^{ik}}^{i_s + j_{sa} - j_{sa}^{ik}} \\ \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = n_i - j_{ik} + 1)}^{(n_i - 1) + 1} \\ \sum_{n_{ik} = n_{is} + s - j_{sa} - j_{sa}^{ik} - j_{sa} - \mathbb{k}}^{n_{is} - s - \mathbb{k}} \\ \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa} - \mathbb{k})! \cdot (n_{is} + j_{sa}^{ik} - j_{ik} - s)!} \\ \frac{-k - 1)!}{(n_{is} + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\ \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{(j_{ik} = j_{sa}^{ik})}^{\mathbf{l}_{ik}} \sum_{j^{sa} = j_{sa}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{\mathbf{l}_{ik}} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \\ \frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}^{sa}-j_{sa})} \sum_{j_{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa}^{sa} - n - 1)! \cdot (n - j_{sa}^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa}^{sa} - l_{ik})! \cdot (j_{sa}^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa}^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa}^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{l_{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_{sa} - j_{ik})!}{(l_{ik} + j_{ik} - n_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j^{sa} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D - j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^l \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{l_{sa}=l_{sa}+n-D}^{l_{sa}-i_l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+j_{sa}^{is}-j_{sa})}^{(n_i-j_s+1)} (n_{is}+j_{sa}^{is}-j_{sa})$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}}^{(n_{is}-s-\mathbb{k})} \sum_{(n_{sa}=n_{ik}+j_{ik}-\mathbb{k})}^{(n_{sa}-s-\mathbb{k})}$$

$$\frac{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}+j_{sa}-\mathbf{n}-j_{ik}-s)!}{(n_{sa}+j_{sa}-\mathbf{n}-j_{ik}-s)!} \cdot$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}-s-\mathbb{k})!} \cdot \frac{(n_{sa}-s-\mathbb{k})!}{(n_{sa}-s-\mathbb{k})!} \cdot$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(l_s+j_{sa}-j_{ik}-s-1) \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$(D + l_i)!$$

$$\frac{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - n + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa}^{ik} - j_{sa} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq l_s + l_{sa} + s - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - n + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa}^{ik} - j_{sa} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \\
& \frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - 1 + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(l_{ik} + l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{\substack{( ) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}}^{\substack{( ) \\ (l_{ik}-k+1)}} \sum_{\substack{( ) \\ (j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}}^{\substack{( ) \\ (n_i-j_s+1)}}$$

$$\frac{(n_i - n_{ik})!}{(n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{\substack{( ) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}}^{\substack{( ) \\ (l_{ik}-k+1)}} \sum_{\substack{( ) \\ (j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{\substack{( ) \\ (n_i-j_s+1)}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}} \sum_{\substack{( ) \\ (n_{is}-s-\mathbb{k})}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{ik} \leq D + \mathbf{l}_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} \bullet 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}}^{D_0} = \sum_{k=1}^n \sum_{(j_{ik} = l_{ik} + \mathbf{n} - D)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{n_i = \mathbf{n} + \mathbb{k}}^{(n_i - j_{ik} + 1)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 1)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{\binom{l_{ik}-l+1}{l}} \sum_{(j_{ik}=l_{ik}+n-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} - n - \mathbb{k})! \cdot (n - j^{sa})!} \\
& \frac{(n_{sa} - l_{ik} - l_{sa}^{ik} - k)!}{(l_{ik} - l_{sa}^{ik} - l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(D + s - l_{sa} - \mathbb{k})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{s=1}^{n_{sa}+l_s+j_{sa}-l_{sa}} \sum_{(j_{ik}=l_{ik}+n-D)}^{(n_{sa}+l_s+j_{sa}-l_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa}+j_{sa}^{ik}-k)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\binom{l_s-k}{l_s}} \\
& \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^{ik} - j_{ik} - s)!} \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

**gündemi**

$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}) > l-i+j_{sa}-D-s}} \sum_{n_i=n+\mathbb{k}}^{l-1} \sum_{(n_i-j_{ik}+1)}^{(n_i-j_{ik}-1)} \sum_{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{n_i+j_{sa}-k-s+1} \frac{(n_i - n_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^l \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_i+j_{sa}-i l-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - l_i - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - l_i + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{\substack{i=1 \\ (j_{ik}=j^{sa}-l_i-j_{sa})}}^{D+l_s+s-\mathbf{n}-l_i} \left( \sum_{\substack{k=1 \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{l_s+j_{sa}-k} \right) \sum_{\substack{s=1 \\ (n_i=j_s+1) \\ (n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}^{n_i-j_s+1} (n_{is}-s-\mathbb{k})! \cdot$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(\mathbf{n} + j_{sa}^{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq n \wedge l_s - s = \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} + j_{ik} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\ell-1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\ell_i+j_{sa}^{ik}-k-s+1} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
 & \sum_{k=1}^{\ell_i} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\ell_i+j_{sa}^{ik}-\ell_i-s+1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\ell_i+j_{sa}^{ik}-\ell_i-s+1} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} .
 \end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l} + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{sa}+j_{sa}-j_{sa}^{ik}}^{(\mathbf{l}_s+j_{sa}-k)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+j_{sa}-j_{ik})}^{(n_i-\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}-n_{ik}}^{(n_{is}-s-\mathbb{k})} \sum_{n_{ik}=n_{is}+j_{sa}-j_{sa}-n_{ik}}^{(n_{is}-s-\mathbb{k})}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa} - \mathbb{k})! \cdot (n_{is} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{-k-1)!}{(n_{is} + j_{sa} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(-k-1)!}{(D - \mathbf{l}_i)!} \frac{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\ j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - 1 \wedge \\ j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge \\ l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa} \wedge \\ D + j_{sa}^{ik} - \mathbf{n} - l_{sa} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik} j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j^{sa}+j_{sa}-j_{sa})} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n-n_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=_il} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-i-l-j_{sa}^{ik}+1}$$

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$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - l_i \mathbf{l} - J_{sa})}{(\mathbf{l}_{ik} - j_{ik} - l_i \mathbf{l} + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_s - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j^{sa} - l_s - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-\mathbf{n}-s)}^{( )} \sum_{l_s+j_{sa}-k}^{l_s+j_{sa}-k} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{n} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{( )} \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{n=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}}^{(l_{sa}+j_{sa}^{ik}-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa}+j_{sa}^{ik}-j_{sa}+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^{l_{sa}+j_{sa}^{ik}-i-l-j_{sa}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{sa}+j_{sa}^{ik}-i-l-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(\mathbf{l}_{ik} - l_i \mathbf{l} - j_{sa})}{(\mathbf{l}_{ik} - j_{ik} - l_i \mathbf{l} + s) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_s - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_s - s)! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{l_s=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_s+1)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )} \\
& \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
& \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \\
& (j_{sa}^{ik} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge
\end{aligned}$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$zS_{j_{ik},j}^{D\mathbf{s}} = \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{i^{l-1}(\mathbf{l}_{ik}-j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{\left(l_s+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\left(n_i-j_{ik}+1\right)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(\mathbf{l}_{ik} - \mathbf{l}_{ik} - j_{ik})!}{(l_{ik} + j^{sa} - l_{ik})! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(\mathbf{l}_{sa} + j^{sa} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j^{sa} - \mathbf{l}_{sa} - s)!}{(D - j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{\left(\mathbf{l}\right)} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\mathbf{l}\right)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-\mathbf{l}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\left(n_i-j_{ik}+1\right)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(\mathbf{n}_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.
\end{aligned}$$

**gündemi**

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+i_{sa}-\mathbb{k})}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-\mathbb{k})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^i-s}^{(n_i-s-\mathbb{k})} \sum_{(n_{sa}=n_{ik}+j_{ik}-\mathbb{k})}^{(n_i-s-\mathbb{k})}$$

$$\frac{(n_{is} + i_{ik} - \mathbf{n} - j_{sa} - s)!}{(n_{is} + i_{ik} - \mathbf{n} - j_{sa} - s - \mathbb{k})!} \cdot \frac{(n + j_{sa} - j_{ik} - s)!}{(n + j_{sa} - j_{ik} - s - \mathbb{k})!} \cdot$$

$$\frac{(n_i - k - 1)!}{(l_s + j_{sa} - j_{ik} - \mathbb{k})! \cdot (j_{ik} - j_{sa} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - s) \vee 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_s - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \wedge D + l_{ik} - s = \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D + s - \mathbb{k} < l_i \leq D + (s + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D + s - \mathbb{k} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j^{sa}}^{DOSSD} &= \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-j_{sa}^{ik}}^{l_{sa}-k+1} \\
 &\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{n_{ik}-j_{ik}-j^{sa}-\mathbb{k}} \\
 &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 &\quad \frac{(n_i - n_{ik} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 &\quad \frac{(n_i - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 &\quad \frac{(n_i - k - j_{sa}^{ik})!}{(l_{sa} - i - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 &\quad \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 &\quad \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
 &\quad \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\
 &\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 &\quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.
 \end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \mathbf{l}_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+n+j_{sa}^{ik}-D-s)}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_s+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}+j_{ik}+1)}^{(n_i-j_s+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n-i_k-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - j_s + 1 - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_i - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+n+j_{sa}^{ik}-D-s)}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_s+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{sa} - j_{sa} + 1 > \mathbf{l}_s \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - j_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = & \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{l_{ik}} \sum_{j_{sa}=l_{ik}+n-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^s - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^s)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa}^s)!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{sa}^s - j_{sa} - l_{ik})! \cdot (j_{sa}^s + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^s - s)!} + \\
& \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{ik}-k+1)} \sum_{j_{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^s+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^s - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^s)!} \cdot
\end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1, l}^{\mathbf{n}} \sum_{(j_{ik} = l_{ik} + \dots + 0)}^{\mathbf{l}_{ik} - i_l + 1} \sum_{j^{sa} = l_{sa} + n - k}^{\mathbf{l}_{sa} - i_k - j^{sa} - \mathbf{k}}$$

$$\sum_{n_i=n-k}^n \sum_{(n_{ik}=n+i_k+1)}^{(n_i-j_{ik}-1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - \mathbf{k})! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^i-j_{sa}^k} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - s)!}$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j_{sa}^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa}^{sa} - \mathbf{D} - s)!}$$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{sa} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge$

$D + j_{sa} - \mathbf{n} - 1 < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$

$D + s - \mathbf{n} < \mathbf{l}_i \leq \mathbf{D} + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 - j_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$D + j_{sa} - 1 < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=l_{sa}-D}^{l_{sa}-k+1} \\ \frac{(n_i - j_{ik} + 1)!}{\sum_{n_i=\mathbb{k}}^{n} (n_{ik} + \mathbb{k} - j_{ik} + 1)!} \cdot \sum_{n_{sa}=\mathbb{n}+1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{ik} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa}^{ik} - l_{ik})! \cdot (j_{sa}^{ik} + j_{sa} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbb{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbb{n}+\mathbb{k}-j_{ik}+1)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa}=\mathbb{n}-j_{sa}+1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - k)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{n} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa})!} +$$

$$\sum_{\substack{\mathbf{k} = \\ \mathbf{i}l}} \sum_{\substack{(j_{ik} - i_l + n - D) \\ j^{sa} + j_{sa}^{ik} - \mathbf{n} - j_{sa}}} \sum_{\substack{(l_{ik} - i_l + 1) \\ l_{sa} - i_l + 1}}$$

$$\sum_{n_i = \mathbf{n} + \mathbf{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbf{k} - j_{ik} + 1)}^{(n_i - j_{ik})} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbf{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{\left(\right.} \\
& \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
& \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{sa}^{ik}-l_s-1)!} \cdot \\
& \frac{(D-l_i)!}{(D+j_{sa}^s+s-\mathbf{n}-j_{sa}^{ik}-j_{sa}^s-j_{sa}^{ik}-s)! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{sa}^s-j_{sa}^{ik}-s)!} \\
& D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s - l_{ik} \wedge l_i - j_{sa}^s - s = l_s \wedge \\
& D + j_{sa} - \mathbf{n} < l_{sa} \leq D + j_{sa}^s + j_{sa} - j_{sa}^{ik} - s \wedge \\
& D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge \\
& j_{sa} \leq j_{sa}^{i_1} - 1 \wedge j_{sa}^{i_2} - j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{i_k} - j_{sa}^s \wedge \\
& s = j_{sa}^{i_1}, \dots, j_{sa}^{i_k}, \dots, j_{sa}^s, \dots, j_{sa}^s \wedge \\
& s \geq 1 \wedge s = s + \mathbb{k} \\
& f_z S_{j_{ik}, j_{sa}^s}^{DO SD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(j_{sa}^s+j_{sa}^{ik}-j_{sa}^s)} \sum_{j_{sa}^s=l_i+\mathbf{n}+j_{sa}^s-D-s}^{l_{ik}+j_{sa}^s-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^s+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}} \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!}.
\end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{\substack{i^{l-1} \\ (j_{ik} = l_{ik} + n - D) \\ n_i = n + \mathbb{k}}}^{\mathbf{l}_{ik} - (n_{ik} - k + 1)} \sum_{\substack{i_{sa} - k - s + 1 \\ j^{sa} = l_{ik} + n - j_{sa} + 1}}^{n_{sa} - l_{sa} + 2} \sum_{\substack{(n_i - j_{ik}) \\ n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{l}} \sum_{(j_{ik} = l_{ik} + \mathbf{n} - D)}^{\mathbf{l}_{ik} - i^{l+1}} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{l_i + j_{sa} - i^{l-s+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{i}l - J_{sa})}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{i}l + s - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - \mathbf{j}a - l - j_{sa})}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - l_{sa} - \mathbf{i}l + s - 1) \cdot (j^{sa} + j_{ik} - j_{sa} - j_{sa})!}.$$

$$\frac{(\mathbf{l} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{n_{is}=n+\mathbb{k}}^{D+l_s+j_{sa}-l_{sa}} \sum_{(n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_i+n-D)}^{l-1} \sum_{(j_{sa}=l_s+n-s)}^{l-1} \sum_{n_i=n+\mathbb{k}}^{n_{ik}-j_{ik}+1} \sum_{n_{ik}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - n_{ik})! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{l_{ik}-k+1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_i+j_{sa}-k-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - l_{sa} - l_{ik} + n - D) \cdot (j_{sa} + l_{sa} - l_{ik} - j_{sa})!}.$$

$$\frac{(s + j_{sa} - \mathbf{n} - s)!}{(D + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1 \cup (l_{ik} - l_{ik} + n - D)}^{(l_{ik} - l_{ik} + 1)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_i+j_{sa}-l_i l-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - l_i l - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - l_i l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\left(l_s+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned} & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\mathbf{n}\right)} \sum_{(n_{sa}=n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k})}^{\left(\mathbf{n}\right)} \\ & \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})!} \cdot \frac{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-s-1)!} \cdot \\ & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \cdot \frac{(D-s)!}{(D+j_{sa}^s+s-\mathbf{n}-j_{sa}^{ik}-s-1)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - i \wedge j_{sa}^{ik} < 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq j_{sa}^{ik} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}^i, \dots, j_{sa}^1\}$$

$$s \geq 5 \wedge s < s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: \mathbb{Z}^{\geq 1} \Rightarrow$$

$$fzS_{j_{ik}, j^{sa}}^{DOSSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(l_s+j_{sa}-k\right)}$$

$$\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\mathbf{n}\right)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{\left(l_s+j_{sa}-k\right)}$$

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$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
 & \frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
 & \frac{(D - l_{sa} - l_{sa} - s)!}{(D - j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - l_{sa} - s)!} + \\
 & \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-\mathbf{n}-1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-k} \right. \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
 & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
 & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +
 \end{aligned}$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_s+\mathbf{n}+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n - 1 - \mathbb{k})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - n_{ik} - k)!}{(l_{ik} - j_{ik} - n - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(l_{sa} + \mathbb{k} - l_{ik} - s)!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j - l_{sa} - s)!}{(D - j_{sa} - \mathbb{k} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_s+\mathbf{n}+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=\mathbf{l}_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n (n_i-\mathbb{k}-j_{ik})$$

$$\sum_{n_{ik}=n+\mathbf{l}_i-j^{sa}-j_{sa}}^{\left(\right)} n_{ik}-n-\mathbb{k}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}.$$

$$\frac{(-k-1)!}{(j_{ik}+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

$$\frac{(-k-1)!}{(\mathbf{D}-\mathbf{l}_i)!}$$

$$\frac{(-k-1)!}{(D+j^{sa}+\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > \mathbf{D} - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} < j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} > \mathbf{n} \wedge$$

$$j_{sa}^s - j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^i, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \leq \mathbb{k} \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \right)$$

$$\begin{aligned}
& \sum_{(j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa})}^{\left(l_s + j_{sa}^{ik} - k\right)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 1)}^{\left(n_i - j_{ik} + 1\right)} \sum_{n_{sa} = \mathbf{n} - j^{sa}}^{\left(n_{ik} + j_{ik} - j^{sa} - \mathbb{k}\right)} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k} - 1)!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - n_{ik} - 1)!}{(l_{ik} - j_{ik} - n_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + \mathbf{n} - l_{sa} - s)!}{(D + \mathbf{n} - l_{sa} - \mathbf{n} - l_{sa}) \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) + \\
& \sum_{k=1}^{i_{ik} + j_{sa}^{ik} - l_{sa} - j_{sa}^{ik}} \sum_{(j_{ik} = l_s + \mathbf{n} + j_{sa}^{ik} - D - 1)}^{\left(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1\right)} \sum_{j^{sa} = l_{sa} + \mathbf{n} - D}^{\left(l_{sa} - k + 1\right)} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 1)}^{\left(n_i - j_{ik} + 1\right)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{\left(n_{ik} + j_{ik} - j^{sa} - \mathbb{k}\right)} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(\mathbf{n}_{sa} - 1)!}{(\mathbf{n}_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.
\end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{\substack{(l_s+j_{sa}^{ik}-k) \\ (j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}} \sum_{\substack{l_{sa}-k+1 \\ j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{n_{ik}+j_{ik}-j^{sa} \\ n_{sa}=n-j^{sa}+1}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - n_{ik} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - \mathbb{k} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa}^{ik} - n_{ik} - j^{sa} - \mathbb{k})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+2} \sum_{\substack{(l_s+j_{sa}^{ik}-k) \\ (j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-1)}} \sum_{\substack{l_{sa}-k+1 \\ j^{sa}=l_{sa}+n-D}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)} \cdot$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+n+j_{sa}^{ik}-D+1) \leq j_{ik} \leq (\mathbf{l}_s+j_{sa}^{ik}-k)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{n_i+k \leq n_i+k+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \sum_{n_{ik}=n_i+j_{sa}^{ik}-j_{sa}^{ik} \leq n_{ik}+j_{ik}-j^{sa}-k}^{(n_i-j_s+1)} \sum_{n_{is}=n_i+k+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1-k)}$$

$$\frac{(n_{is} - k - \mathbb{k})!}{(n_{is} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa}^{ik} - s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} - 1 \wedge$

$j_{sa}^{ik} + \mathbb{k} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + \mathbb{k} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}} \right) \sum_{\substack{(j_{ik}=j_{sa}+j_{sa}^{ik}) \\ (j_{sa}=l_{sa}+n)}} \frac{\sum_{n_i=n+\mathbb{k}}^{(j_{ik}-j_{ik}+1)} \sum_{n_{ik}=n+\mathbb{k}-j_{ik}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}}{\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}} \cdot \frac{(n_{ik} - n_{ik} - \mathbb{k} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_i + j_{ik} - n_{sa} - j_{sa} - \mathbb{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} + \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \right) + \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{\substack{(j_{ik}=l_{ik}+\mathbf{n}-D) \\ (j_{sa}=l_{sa}+\mathbf{n}-D)}} \sum_{n_i=n+\mathbb{k}}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{n_{ik}=n+\mathbb{k}-j_{ik}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{sa}+j_{sa}-\mathbf{n}+1} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right)$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - l_{sa})!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \frac{(l_{ik} - k + 1)!}{(j_{ik} = l_{ik} + n - D) \cdot j^{sa} = l_{ik}} \sum_{j_{sa}=j_{sa}^{ik}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^{\infty} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 1)}^{(n_i - j_{ik} - 1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+2}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik} - 1)! \cdot (j_{sa}^{ik} + j_{ik} - l_{sa} - j_{sa})!} \\
& \left. \frac{(D - l_{sa} - l_{ik} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{D+l_{s+k}-l_i} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \sum_{l_s+j_{sa}-k}^{l_s+j_{sa}-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

((D ≥  $\mathbf{n}$  <  $n$  ∧  $l_s > D - \mathbf{n} + 1$  ∧  
 $j_{sa}^{ik} + 1 ≤ j_{ik} ≤ j^{sa} + j_{sa}^{ik} - j_{sa} - 1$  ∧

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSS} = \sum_{k=1}^{D+l_{ik}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{\alpha_{ik}-k+1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\beta_{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{ik} - k - 1)!}{(l_{ik} + n - j^{sa} - l_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + n - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j^{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+2}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{ik}=n+\mathbb{k}-j_{ik}+1}^{n_{ik}-l_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \frac{(n_{ik} - l_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - l_{ik} - n_{sa} - \mathbb{k} - 1)!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\ \frac{(\mathbf{l}_{sa} - k - j_{sa}^{ik})!}{(l_{ik} - k - j_{sa}^{ik} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{\left( \right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
& f_z S_{j_{ik}, j^{sa}}^{spec} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\begin{aligned} & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-\mathbb{k})}^{(n_i-j_s+1)} \\ & \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\ & \frac{(l_s-k+1)!}{(l_s+j_{sa}-l_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D-s)!}{(D+j^{sa}+s-\mathbf{n}-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}. \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} \quad j_{sa} - s > l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} - 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^{i-1} \wedge j_{sa}^{ik} < j_{sa}^{i-1} \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: (j_1, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_1, \dots, j_{sa}^i)$$

$$s \geq 5 \wedge s < s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{i=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{(j_{ik}=l_i+j_{sa}^{ik}-D-s) \\ (j_{ik}=l_i+j_{sa}^{ik}-D-s)}}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{\substack{(n_i-j_s+1) \\ (=n+\mathbb{k}) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{(n_i-j_s+1)} \sum_{\substack{(n_{is}-s-\mathbb{k}) \\ (n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{sa}^s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{sa} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa} \leq j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{} \sum_{j^{sa}=l_i+n+j_{sa}-D}^{l_i+j_{sa}-k-s+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik})}^{(n_i-j_{ik}+1)} \sum_{(n_{sa}=n-\mathbb{k}-j_{sa}+1)}^{n_{ik}-j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_i + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
 & \frac{(\mathbf{n} - 1)!}{(n_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(\mathbf{l}_s - k - j_{sa}^{ik})!}{(n_{is} - l_{is} - j_{sa}^{ik} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\
 & \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{} \sum_{j^{sa}=l_{ik}+n+j_{sa}-D-j_{sa}^{ik}}^{l_s+j_{sa}-k} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\mathbf{l}_s - k - 1)!} \\
 & \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
 & \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
 \end{aligned}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOS} \sum_{i=1}^{D-n+1} \sum_{\substack{j_{ik}=l_i+n-j_{sa}^{ik}-D-s \\ n_i=n+\mathbb{k} \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\ n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1}} \sum_{\substack{i-k-s \\ j_{ik}+1 \\ n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}} \sum_{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\mathbf{l}_s+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}} \sum_{\substack{(l_{ik}+n-D) \\ (j_{ik}=l_{ik}+n-D)}} \sum_{\substack{(l_{sa}+j_{sa}-k) \\ (j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\frac{\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa})}^{\left(\right)} (n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}.$$

$$\frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{sa}^{ik}-l_s-1)!}.$$

$$\frac{(D-l_i)!}{(D+j^{sa}+s-\mathbf{n}-j_{sa}^{i-1})! \cdot (\mathbf{n}+j_{sa}^{i-1}-j^{sa}-s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{i-1} \wedge l_{ik} \wedge l_i - j_{sa}^{i-1} - s = l_{i-1} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^i \leq j_{sa}^{ik} - 1$$

$$s: \{j_s^s, \dots, j_{sa}^{ik}, \dots, j_{sa}^{i-1}, \dots, j_{sa}^i\} \wedge$$

$$s = 5 \wedge s = s - \mathbb{k} \wedge$$

$$\mathbb{k}_{z^*} = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_s+\mathbf{n}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - s)}^{(l_s + j_{sa}^{ik} - k)} \sum_{i_{sa} = l_s + j_{sa} - k + 1}^{l_{ik} - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=1}^n \sum_{(n_{ik} = n + j_{ik} + 1)}^{(n_{ik} - 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - j_{ik} - 1)!}{(j_{ik} - j_{ik} + 1) \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - j_{ik} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (j_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = l_t + \mathbf{n} + j_{sa} - D - s}^{l_{ik} + j_{sa} - k - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^i-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - \mathbb{k})!}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa}^{ik} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_{j_{ik}}^{DOS} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=\mathbf{l}_s+n+j_{sa}^{ik}-D-1)}^{(l_i+\mathbf{n}+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-k-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D-n+1} \sum_{\substack{(l_s + j_{sa}^{ik} - k) \\ (j_{ik} = l_i + n + j_{sa}^{ik} - D)}}^{l_i + j_{sa} - k - s + 1} \sum_{\substack{(n_i - j_{ik} - 1) \\ (n_{ik} = n + \mathbf{k} - j_{ik} + 1)}}^{n_{ik} + j_{ik} - \mathbf{k}} \sum_{\substack{(n_i - n_{ik}) \\ (n_{ik} - 2)}}^{n_{sa} = n - j^{sa} + 1} \sum_{\substack{(n_i - n_{ik}) \\ (n_{ik} - 2)}}^{n_{sa} = n - j^{sa} + 1}$$

$$\frac{(n_{ik} - j_{sa} - \mathbf{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbf{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-n-\mathbf{l}_{sa}} \sum_{\substack{(l_{ik} - k + 1) \\ (j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}} \sum_{\substack{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}}^{l_{ik} - k + 1}$$

$$\sum_{n_i = \mathbf{n} + \mathbf{k}}^n \sum_{\substack{(n_i - j_s + 1) \\ (n_{is} = n + \mathbf{k} + j_{sa}^{ik} - j_{ik})}}^{n_{sa} = n_{ik} + j_{ik} - j^{sa}}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{\left( \right)} \sum_{\substack{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbf{k})}}$$

gündüz

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_i - l_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > \dots) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^i \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sc}^s, \dots, j_{sa}^{ik}, \dots, j_{sc}^i, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge s = \mathbb{k} \wedge \mathbb{k} \wedge$$

$$\mathbb{k}_z := 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_{sa}+n-D}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - s)}^{(l_s + j_{sa}^{ik} - k)} \sum_{i_{sa} = l_s + j_{sa} - k + 1}^{l_s + j_{sa} - k}$$

$$\sum_{n_i=1}^n \sum_{(n_{ik} = n + j_{ik} + 1)}^{(n_i - 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_i - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - j^{sa} - 1)!}{(j_{ik} - j_{ik} + 1) \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - j_{ik} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (j_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{\left(\right)} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{l_{ik} + j_{sa} - k - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^i-j_{sa}^k} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - s)!}$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa}^{sa} - \mathbf{s} - s)!}$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{M} - 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{ \mathbb{M}, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, \dots, j_{sa}^l \}$$

$$\geq 5 \wedge s \geq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - l_{sa})!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{\substack{(l_{sa} + j_{sa}^{ik} - k) \\ = l_{sa} + n + \mathbb{k} - \mathbb{k} - j_{ik}}}^{\mathbb{l}} \sum_{\substack{l_{sa}-k+1 \\ = l_{sa} - j_{sa} + j_{sa}^{ik}}}^{\mathbb{l}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i - j_{ik}) \\ = n_i - \mathbb{k} - j_{ik} + 1}}^{\mathbb{l}} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{(l_{ik}-k+1) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}}^{\mathbb{l}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\mathbb{l}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot$$

$$\frac{(\mathbf{l}_s-k-1)!}{(\mathbf{l}_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (\mathbf{l}_s-j_{sa}-1)!}.$$

$$\frac{(\mathbf{D}-\mathbf{l}_i)!}{(\mathbf{D}+j_{sa}^{sa}+s-\mathbf{n}-j_{sa}^{ik}-\mathbf{l}_i)! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{sa}-s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} = \mathbf{l}_i \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \wedge$$

$$s > n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{K}_z : z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} &= \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\
&\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
&\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
&\quad \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \\
&\quad \frac{(n_{sa} - s - 1)!}{(n_{sa} - j^{sa} - 1) \cdot (n - j^{sa})!} \\
&\quad \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
&\quad \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa}) \cdot (n + j_{sa} - j^{sa} - s)!} - \\
&\quad \sum_{k=1}^{D+l_{sa}-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k} \\
&\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{is}+1)} \\
&\quad \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^{ik} - j_{ik} - s)!} \\
&\quad \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
&\quad \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$\begin{aligned} j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \vee \end{aligned}$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$\begin{aligned} j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \vee \\ (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \end{aligned}$$

$$\begin{aligned} j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge \\ D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \end{aligned}$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} S_j^{DO} = & \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1)} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{j^{sa}=j_{sa}+j_{sa}-j_{sa}^{ik}}^{\mathbf{l}_s+j_{sa}^{ik}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_i+\mathbb{k}-j_{ik})}^{(n_i+\mathbb{k}-1)}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot$$

$$\frac{-k-1)!}{(j_{sa}^{ik}+j_{sa}-j_{sa}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(\mathbf{l}_i)!}{(D+\mathbf{j}^{sa}+\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 < j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-i-k+j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\ \frac{(n_i-j_{ik}+1)!}{(j_{ik}-2) \cdot (n_i-n_{ik}-1)! \cdot (n_{ik}-j_{ik}+1)!} \cdot \\ \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1) \cdot (n_{ik}+j_{ik}-n_{sa}-\mathbb{k})!} \cdot \\ \frac{(n_{sa}-n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!}{(n_{sa}-n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \cdot \\ \frac{(l_{ik}-k-j_{sa}^{ik})!}{(l_{ik}-j_{ik}-s+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ \frac{(D+i-s-l_{sa}-s)!}{(D+i-s-l_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} - \\ \sum_{\substack{D+l_s+s-k-l_i \\ \nabla \\ 1}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k} \\ \sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(n_i-j_{is}+1)} \\ \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\ \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ \frac{(D-l_i)!}{(D+j^{sa}+s-\mathbf{n}-l_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fzS_{j_{ik}, j^{sa}}^{DOS} = \sum_{k=1}^{D-j_{ik}-j_{sa}+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{(n_i-j_{ik}+1)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_{ik}-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{\left(l_s+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned} & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\Delta\right)} \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-s)!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-s)!} \cdot \\ & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \cdot \frac{(D-s)!}{(D+j_{sa}^{sa}+s-\mathbf{n}-j_{sa})! \cdots (j_{sa}-j^{sa}-s)!} \end{aligned}$$

$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - s) \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - s) \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \geq l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$\{s, j_{sa}^{sa}, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$

$s \geq 5 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j^{sa}}^{DO SD} = & \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
 & \frac{(n - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - j_{sa}^{ik})!}{(n_i - j_{ik} - n - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - n - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - l_{sa} - s - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
 & \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_i+j_{sa}-k-s+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
 \end{aligned}$$

**gündem**

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k} \frac{\sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{is}=n_{ik}+j_{sa}^{ik}-j_{sa})}^{\left(\right)}}{\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{n} \sum_{(n_{is}=n_{ik}+j_{sa}^{ik}-j^{sa}-\mathbb{k})}^{\left(\right)}} \frac{(n_{is}-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})! \cdot (j_{sa}+j_{sa}^{ik}-j_{ik}-s)!} \cdot$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})! \cdot (j_{sa}+j_{sa}^{ik}-j_{ik}-s-1)!} \cdot$$

$$\frac{(n_{is}-s-k-1)!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(n_{is}-s-l_i)!}{(D+j^{sa}+\mathbf{n}+j_{sa}-s-\mathbf{n}-l_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$$\begin{aligned} & ((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & l_{ik} - j_{sa} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa}) \vee \\ & (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-k-s+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(j_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - \mathbb{k} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(j_{ik} + j_{sa} - l_{ik} - j^{ik})!}{(j_{ik} + j_{sa} - l_{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_i+j_{sa}-k-s+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+\mathbf{l}_s+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}} \sum_{(j_{ik}=\mathbf{l}_t+\mathbf{n}+j_{sa}^{ik}-D)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{(n_i=j_{ik}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s)}$$

$$\sum_{(n_i=\mathbf{n}+\mathbb{k})}^{(n_i-j_s)} \sum_{(n_{is}=n_i+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s)}$$

$$\sum_{(n_{ik}=n_i-j_{sa}^{ik}-j_{sa})}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \sum_{(n_{is}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_{is} - \mathbb{k})!}{(n_{ik} + j_{ik} - j^{sa} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} + \mathbb{k} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - \mathbb{k} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^{\omega} j_{ik}^{SD} = \sum_{k=1}^{D-n+1} \sum_{\substack{(j_{ik} = l_{ik} + n - D) \\ j^{sa} = l_{sa} + n - D}} \sum_{i=n+\mathbb{k}}^{n} \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = n + \mathbb{k} - j_{ik} + 1)}} \sum_{s_a=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - n - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - l_{sa})!}{(n_i - j_{ik} - s - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - l_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{l_i=l_s+s-\mathbb{k}-l_i}^{D+l_s+s-\mathbb{k}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\right)}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$D \geq n < n \wedge s = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{i-1} \wedge j_{sa}^{i-1} \leq j_{sa}^{i-1} \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = \mathbb{k} \wedge \mathbb{k}$$

$$\mathbb{k}_{2,2} = 1$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(\mathbf{l}_{ik}-k)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}+1}$$

$$\sum_{n_i=n}^{\mathbf{n}} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n-i_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{\left(\right.} \\
 & \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
 & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{sa}^{ik}-l_s-1)!} \cdot \\
 & \frac{(D-l_i)!}{(D+j_{sa}^s+s-\mathbf{n}-j_{sa}^{ik})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{sa}^s-s)!}
 \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq \mathbf{n} + j_{sa} - s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{i+1} - j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - j_{sa} \wedge$$

$$\{j_{sa}^s, \dots, j_{sa}^i, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbb{k} \wedge s = s + \mathbb{k}$$

$$\Pi_x : z = \dots \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_{ik}, j_{sa}}^{DOSD} &= \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}^s+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=j_{sa}+1}^{l_s+j_{sa}-k} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.
 \end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - k + 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - l_{sa})!} +$$

$$\sum_{k=1}^{n_i-1} \sum_{\substack{(n_{ik}-j_{ik}^{ik}) \\ (j_{ik}=j_{sa}+1)}}^{\substack{(l_{sa}+j_{sa}^{ik}-k) \\ (l_{sa}-k+1)}} \sum_{\substack{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}) \\ (n_{sa}=n-j^{sa}+1)}}^{l_{sa}-k+1}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=_i l} \sum_{(j_{ik}=j_{sa}^{ik})}^{\substack{(\ ) \\ (j_{ik}-j_{sa}^{ik})}} \sum_{j^{sa}=j_{sa}}^{l_{sa}-_i l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - l_{ik} - s)!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - s)!}.$$

$$\frac{(\mathbf{l}_{sa} + l_{sa} - s)!}{(\mathbf{l}_{sa} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{l-1} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=_il}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{(\ )}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{f_Z}S_{j_{ik}}^{SD} = \sum_{k=1}^{n_i} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{\substack{( ) \\ l_{sa}-i^{l+1}}} \sum_{j^{sa}=j_{sa}}^{n_{ik}-j_{ik}-j^{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_{ik}+j_{ik}-j^{sa}} \sum_{n_s=n-j^{sa}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - \mathbb{k} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} + 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - n_{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - n_{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{\substack{(l_s+j_{sa}^{ik}-k) \\ (j_{ik}=j_{sa}^{ik}+1)}}^{\substack{(l_s+j_{sa}^{ik}-k) \\ (j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}} \sum_{\substack{( ) \\ (n_{is}+j_{sa}^{ik}-j_{sa}-k)}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{\left(\right)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\left(\right)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{\left(\right)} \frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i - \mathbb{k})! \cdot (\mathbf{n} - s)!}$$

$$\begin{aligned} D \geq \mathbf{n} < n \wedge l_{sa} &\leq D + j_{sa} - \mathbf{n} \wedge \\ j_{sa}^{ik} &\leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge \\ j_{ik} + j_{sa} - j_{sa}^{ik} + 1 &\leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ l_{ik} - j_{sa}^{ik} + 1 &= l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \\ D \geq \mathbf{n} &< n \wedge I = \mathbb{k} > 0 \wedge \\ j_{sa} &\leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} - s &= 1 \wedge \\ s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}\} &\wedge \\ s \geq 5 &\wedge s = s + \mathbb{k} \wedge \\ \mathbb{k}_z: z &= 1 \Rightarrow \end{aligned}$$

$$S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right. \\ \left. \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \right. \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}} \sum_{j^{sa}=j_{sa}+2}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \Big) +$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{\substack{(j^{sa}+j_{sa}^{ik}-j_{sa}-1) \\ (j_{ik}=j_{sa}^{ik}+1)}} \sum_{j^{sa}=j_{sa}+2}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{\substack{j_{ik}=j_{sa}^{ik}+1 \\ j^{sa}=l_{ik}+j_{sa}-k-j_{sa}+2}}^{l_{ik}-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{l_{sa}-k+1} \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - k + 1)!}{(l_{ik} - j_{sa}^{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_tl}^n \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{l_{sa}-{}_tl+1} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-{}_tl+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{}{}} \sum_{(j^{sa}=j_{sa}+1)}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^{\infty} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s)}$$

$$\sum_{n_{ik}=n_i-j_{sa}^{ik}-j_{sa}}^{n_i} \sum_{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{is} - \mathbb{k})!}{(j_{ik} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{\binom{}{}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\binom{}{}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{i_{ik}, j_{sa}}^{DOSD} = \frac{\left( \sum_{k=1, \dots, n_i=j_{sa}+j_{sa}^{ik}-1}^{iL-1} \sum_{l=j_{sa}+1}^{l_s+j_{sa}-1} \right) \cdot (n_i - n_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} + 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - l - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}}^{( )}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\left( \sum_{k=1}^{l-1} \sum_{\substack{(j_{ik} = j_{sa} + 1) \\ (j_{ik} = j_{sa} + k + 1)}}^{l-1} \sum_{\substack{j^{sa} = j_{sa} \\ j^{sa} = j_{ik}}}^{l_{sa} - n_{sa} - k} \right)$$

$$\sum_{\substack{n \\ n_i = n + \mathbb{k} \\ (n_{ik} = n + \mathbb{k} - j_{ik} + 1) \\ n_{sa} = n - j^{sa} + 1}}^n \sum_{\substack{(j_{ik} = j_{sa} + 1) \\ (j_{ik} = j_{sa} + k + 1)}}^{n - j_{ik} + j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{\substack{(j_{ik} = j_{sa}^{ik} + 1) \\ (j_{ik} = j_{sa} + k + 1)}}^{l-1} \sum_{\substack{j^{sa} = l_s + j_{sa} - k + 1 \\ j^{sa} = l_s + j_{sa} - k + 1}}^{l_{sa} - k + 1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_{ik}=n+\mathbb{k}-j_{ik}+1) \\ (n_{ik}=n-\mathbb{k}+1)}}^{n_{ik}-j_{ik}+1} \sum_{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}_{ik}} \sum_{\substack{( ) \\ (j_{ik} = j_{sa}^{ik})}}^{\mathbf{l}_{ik+1}} \sum_{j^{sa}=j_{sa}+1}^{l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n-i_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^n \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{\mathbf{l}_{sa}-1} \sum_{\substack{( ) \\ (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}}^{\mathbf{l}_{sa}} \sum_{j^{sa}=j_{sa}+1}^{\mathbf{l}_{sa}+j_{sa}-k}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k})}^{\left(\right.} \\
& \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-n-j_{sa}^{ik}-\mathbb{k})! \cdot (n+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
& \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{sa}^{ik}-l_s-1)!} \cdot \\
& \frac{(D-l_i)!}{(D+j_{sa}^s+s-n-l_i-1)! \cdot (n+j_{sa}^s-j_{sa}^{sa}-s)!} \\
& \sum_{k=1}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{} \sum_{j_{sa}^{sa}=j_{sa}}^{\left(\right.} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}+1)}^{\left(\right.} n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k} \\
& \frac{(n_i+j_{ik}-s-j_{sa}^{ik}-\mathbb{k})!}{(n_i+j_{ik}-n-j_{sa}^{ik}-\mathbb{k})! \cdot (n-s)!} \cdot \\
& \frac{(D-l_i)!}{(D+s-n-l_i)! \cdot (n-s)!} \\
& D \geq n < n \wedge l_{sa} = D + j_{sa} \wedge n_i < n \wedge \\
& j_{sa}^{ik} \leq j_{sa}^s \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa}^{sa} - \mathbb{k} - 1 \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{sa} + 1 \leq j_{sa}^s \leq n + j_{sa} - s \wedge \\
& l_{il} - l_{sa} - 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \\
& D \geq n < r \wedge I = \mathbb{k} > 0 \wedge \\
& j_{sa} - j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\
& s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge \\
& s \geq 5 \wedge s = s + \mathbb{k} \wedge \\
& \mathbb{k}_z: z = 1 \Rightarrow
\end{aligned}$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \left( \sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{lk}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{ik} - k - 1)!}{(l_{ik} - j_{ik} - k - 1)! \cdot (j_{ik} - j_{sa}^{lk} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{lk})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \Big) +$$

$$\left( \sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{lk}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} - l_{sa} - j_{ik} - j_{sa})!}.$$

$$\frac{(s + j_{sa} - \mathbf{n} - s)!}{(D + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\lfloor \frac{(\mathbf{n})}{l} \rfloor} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{sa}-l_{ik}+1} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-l_{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{\infty} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\ )} (n_{sa}=n_{ik}+j_{sa}^{ik}-j^{sa}-\mathbb{k})$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}.$$

$$\frac{(l_s-k-1)!}{(l_s+j_{sa}^{lk}-j_{ik}+1) \cdot (j_{ik}-j_{sa}^{lk}-1)!}.$$

$$\frac{(D-l_i)!}{(D+j^{sa}+s-\mathbf{n}-l_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} -$$

$$\sum_{k=1}^l \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i+j_{ik}-s-j_{sa}^{ik}-\mathbb{k})!}{(n_i+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}-s)!}.$$

$$\frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-s)!}$$

$$D \geq \mathbf{n} < n \wedge s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} < j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}^{ik}-k)} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(j_{sa} - k - j_{sa}^{ik})!}{(l_{ik} - l_{sa} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=l}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}}^{( )}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) +$$

$$\left( \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{l_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(n_{ik} - \mathbb{k} - 1)!}{(l_{ik} - j_{ik} - \mathbb{k} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j^{sa} - l_{sa} - s)!}{(D - n_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=-l}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{\infty} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{l-1} \sum_{j_{ik}=j_{sa}^{ik}+1}^{l_s+j_{sa}^{ik}-k} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} ( )$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{n} n_{sa}=n_{ik}+j_{ik}-j_{sa}-(\mathbb{k})$$

$$\frac{(n_i + j_{sa} - s - \mathbb{k})!}{(n_{is} + j_{sa} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (n_{ik} + j_{sa} - j_{ik} - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa} - j_{ik} - \mathbb{k})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l)!}{(D + s - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=l}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}}^{( )}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{( )}$$

$$\frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < r \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-l_{sa}-j_{sa}^{ik}+1} \right) \cdot \frac{\left( \sum_{a=l_{sa}+n-D}^{l_{ik}+j_{sa}-n+1} \right)}{\left( \sum_{i=k-j_{sa}}^{i=k-j_{sa}+1} \right)} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_i - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) +$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \frac{(n_{ik} - k + 1)!}{(j_{ik} - j_{sa}^{ik} + 1)! \cdot j^{sa} = l_{ik}} \cdot \frac{(l_{sa} - k + 1)!}{j^{sa} = l_{sa} - j_{sa}^{ik} + 2} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 1)}^{(n_i - l_{ik} - 1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbf{n} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l_{ik}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} + l_{sa} - \mathbf{l}_{ik} - j_{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa} - \mathbf{l}_{ik} - s)!}{(D + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{l}_{ik}(j_{ik}=j_{sa}^{ik})}^{\mathbf{l}_{sa}} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-\mathbf{l}_{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\begin{aligned}
 & \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{} \sum_{\substack{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1 \\ j^{sa}=l_i+n+j_{sa}-D-s}}^{} \\
 & \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-)}}^{} \\
 & \quad \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{sa}-j^{sa}-\mathbb{k})}}^{} \\
 & \quad \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-n-j_{sa}^{ik}-\mathbb{k})!(n+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
 & \quad \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k-1)!(j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
 & \quad \frac{(D-1)!}{(D+j^{sa}+s-n-j_{sa})!(n+j_{sa}-j^{sa}-s)!}.
 \end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq j_{ik} + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge$$

$$D + j_{sa} - n \leq l_{sa} \leq n + l_{ik} + j_{sa} - j_{sa}^{ik} \wedge$$

$$D \geq n < n \wedge l_i - \mathbb{k} > 0 \wedge$$

$$j_{sa} - j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa} \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \square s = s + 1 \wedge$$

$$\mathbb{K}_z : z = 1 \wedge$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \right)$$

$$\sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{} \sum_{\substack{l_s+j_{sa}-k \\ j^{sa}=l_{sa}+n-D}}^{}$$

**g** **u** **l** **d** **u** **g** **i**

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\left( \sum_{i=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}-1} \sum_{j=j_{sa}^{ik}+1}^{(j^{sa}+j_{sa}-j_{sa}^{ik}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_s+j_{sa}-k} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n - 1 - \mathbb{k})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - n_{ik} - j_{ik})!}{(l_{ik} - j_{ik} - n - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + \mathbb{k} - l_{ik} - j_{sa})!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j^{sa} - l_{sa} - s)!}{(D - j_{sa} - \mathbb{k} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l_{sa}-n-l_{sa}-j_{sa}^{ik}+2} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{l_{sa}-1} \sum_{j^{sa}=l_{sa}+n-D}^{(l_s+j_{sa}^{ik}-k)} \sum_{l_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-s-n-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\mathbf{l}}{\mathbf{l}}} \sum_{j^{sa}=\mathbf{l}_{sa}+\mathbf{n}-D-s}^{\mathbf{l}_{sa}-\mathbf{i}\mathbf{l}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n_i-j^{sa}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_k - 1)!}{(n_i - 2)! \cdot (n_i - n_k - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - \mathbb{k})! \cdot (n_{ik} - n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D-s-n-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\mathbf{l}}{\mathbf{l}}} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l}_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\binom{\mathbf{l}}{\mathbf{l}}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\mathcal{S}_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D+l_{ik}+j_{sa}-n-\mathbf{l}_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n_i-j_{ik}+1} \sum_{n_{ik}=\mathbf{n}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) +$$

$$\begin{aligned}
& \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \right. \\
& \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \quad \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \quad \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \quad \frac{(l_{sa} + j_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \quad \frac{(D + j^{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \quad \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1} \\
& \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \quad \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \quad \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \quad \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{sa}^{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{i}l}^{\mathbf{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-i_l+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)}.$$

$$\sum_{k=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{\substack{(l_{ik}-k+1) \\ (j_{ik}=\mathbf{l}_i+n+j_{sa}^{ik}-D-s)}}^{(l_{ik}-k+1)} \sum_{\substack{(n_i-k) \\ (n_i=n+\mathbb{k})}} \sum_{\substack{(n_{is}-\mathbb{k}) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}$$

$$\sum_{\substack{(n_{ik}-\mathbb{k}) \\ (n_{ik}=n+\mathbb{k}+j_{sa}^s-j_{sa}^{ik})}} \sum_{\substack{(n_{is}-\mathbb{k}) \\ (n_{is}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}$$

$$\frac{(n_{is} - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa} - \mathbf{s} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \leq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} - j_{ik} \leq j^{sa} + j_{sa}^s - j_{sa} - 1$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = j_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - s \leq \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$\mathbf{s} > \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1}$$

$$\sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-k}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_i - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbb{k} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + l_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) +$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}}^{n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(n_i - k - j_{sa}^{ik})!}{(l_{ik} - j_{sa}^{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}}^{n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \mathbf{l}_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{\mathbf{l}_{sa}+j_{sa}^{ik}-k} j^{sa} = l_{sa} + n -$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}+j_{ik}+1)}^{n_i-j_{sa}-\mathbb{k}} n_{sa} = n - j^{sa} + 1$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - j_{sa} - 1) \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - j_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{\mathbf{l}_{sa}+j_{sa}^{ik}-k} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^i}^{n_{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\mathbf{l}_{sa})} n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$J_{ik,j_{sa}}^{SD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\text{()}} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i-1} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{\substack{( ) \\ n_i=\mathbf{n}+\mathbb{k} \\ (n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{( ) \\ j^{sa}=j_{sa}}}^{\substack{( ) \\ l_{sa}-i^{l+1}}} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{\substack{( ) \\ (n_i-j_{ik}+1)}} \sum_{n_s=n-j^{sa}+1}^{\substack{( ) \\ n_{ik}+j_{ik}-j^{sa}}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - 1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - i - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - 1 + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{i-1} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{\substack{( ) \\ n_i=\mathbf{n}+\mathbb{k} \\ (n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}} \sum_{\substack{( ) \\ j^{sa}=j_{sa}+1}}^{\substack{( ) \\ l_s+j_{sa}-k}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\substack{( ) \\ (n_i-j_{is}+1)}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{\substack{( ) \\ (n_{is}-s-\mathbb{k})}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\substack{( ) \\ (n_{is}-s-\mathbb{k})}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{l \in \binom{[n]}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}} \frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (s - \mathbf{n})!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - \mathbb{k} \wedge j_{sa}^s \leq j_{sa}^{ik} -$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DO SD} = \sum_{k=1}^{i^{l-1}(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{\substack{(j_{ik}=j_{sa}^{ik}) \\ (j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}}^{\left(\mathbf{l}_{sa}+j_{sa}^{ik}-\mathbf{l}-j_{sa}+1\right)} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n_{sa}+j_{ik}-j_{sa}+1)}}^{\left(n_i-n_{ik}+1\right)} \sum_{\substack{n_{ik}+j_{ik}-\mathbb{k} \\ (n_{sa}=n-j^{sa}+1)}}^{\left(n_{ik}-j_{ik}\right)} \cdot$$

$$\frac{(n_i - n_{ik})!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(j_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{\substack{(j_{ik}=j_{sa}^{ik}+1) \\ (j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}}^{\left(\mathbf{l}_{sa}+j_{sa}^{ik}-k\right)} \sum_{\substack{(n_i-j_{sa}+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\mathbf{l}_{sa}+j_{sa}^{ik}-\mathbf{l}\right)} \sum_{\substack{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{\left(\mathbf{l}_{sa}+j_{sa}^{ik}-\mathbf{l}\right)} \cdot$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{\substack{( ) \\ j_{ik}=j_{sa}^{ik}}} \sum_{\substack{( ) \\ j^{sa}=j_{sa}}} \frac{\sum_{i=1}^n \sum_{\substack{( ) \\ n_i=\mathbf{n}+\mathbb{k} \\ (n_{ik}=n_i-j_{ik}+1)}} \sum_{\substack{( ) \\ n_{sa} \\ (n_{ik}-j_{sa}^{ik}-\mathbb{k})}}}{\frac{(n_i + j_{ik} - \mathbb{k} - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}}.$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{sa} - j_{sa} + j_{sa}^{ik} > \mathbf{l}_s \wedge$$

$$\mathbf{l}_{sa} - D + j_{sa} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < r \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} - j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_i - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{ik})!}{(l_{ik} + j_{ik} - n_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + \mathbb{k} - l_{ik} - s)!}{(j_{ik} + j_{sa} - n_{sa} - \mathbb{k} - s) \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D - n_{sa} - \mathbb{k} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{l_{sa}-i_l} \frac{\left(l_{ik}-i_l+1\right)_{l_{sa}-i_l}}{(n_i-j_{ik}+1)_{n_{ik}-j_{ik}+1} \cdots n_{sa}-j^{sa}+\mathbb{k}} \\ \frac{(n_i-j_{ik}-1)!}{(n_{ik}-j_{ik}-1) \cdots (n_{sa}-j^{sa}-\mathbb{k})!} \\ \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \\ \frac{(\mathbf{l}_{ik}-j_{ik}-i_l+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik}-i_l+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \\ \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$+ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{( )}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^n \sum_{\substack{( ) \\ j_{ik}=j_{sa}^{ik}}} \sum_{\substack{( ) \\ j^{sa}=j_{sa}}} \frac{\sum_{i=1}^n \sum_{\substack{( ) \\ n_i=\mathbf{n}+\mathbb{k} \\ (n_{ik}=n_i-j_{ik}+1)}} \sum_{\substack{( ) \\ n_{sa} \\ (n_{ik}-j_{ik}+1) \\ j_{sa}=\mathbf{n}-\mathbf{l}_i-\mathbb{k}}} \frac{(n_i + j_{ik} - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}}{(D + s - \mathbf{n} - \mathbf{l}_i) \cdot (\mathbf{n} - s)!}.$$

$$\begin{aligned} & ((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & \mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \\ & \mathbf{l}_i \leq D + s - \mathbf{n}) \wedge \\ & ((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & \mathbf{l}_{sa} - j_{sa} + 1 > \mathbf{l}_s \wedge \\ & \mathbf{l}_{sa} + j_{sa} - \mathbf{n} - j_{sa}^{ik} > \mathbf{l}_i \leq D + s - \mathbf{n}) \wedge \\ & D \geq \mathbf{n} < r \wedge I = \mathbb{k} > 0 \wedge \\ & j_{sa} - j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\ & \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge \end{aligned}$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{\left(l_{ik}-k+1\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\left(n_i-j_{ik}+1\right)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_{ik} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_{ik} - j_{ik})!}{(l_{ik} + j_{ik} - n_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + \mathbb{k} - l_{ik} - s)!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D - j_{sa} - \mathbf{k} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\_l}^{\left(l_{ik}-\_l+1\right)} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{ik}-\_l+1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-\_l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\left(n_i-j_{ik}+1\right)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \_l - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{sa}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_i-j_{ik}+1)}^{(n_i-\mathbb{k}+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{ik}}$$

$$\sum_{( )} \sum_{(n_{is}-s-\mathbb{k})}^{(n_{is}-\mathbb{k})} \sum_{(n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}-\mathbb{k})}$$

$$\frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})! \cdot (j_{sa}^{ik}+j_{sa}^{ik}-j_{ik}-s)!}.$$

$$\frac{(-k-1)!}{(j_{sa}^{ik}+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

$$(\mathbf{D}-\mathbf{l}_i)!$$

$$\frac{(\mathbf{D}+j^{sa}+s-\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}{(\mathbf{D}+s-\mathbf{n}-\mathbf{l}_i)!(\mathbf{n}-s)!} -$$

$$\sum_{k=1}^l \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{( )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i+j_{ik}-s-j_{sa}^{ik}-\mathbb{k})!}{(n_i+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}-s)!}.$$

$$\frac{(\mathbf{D}-\mathbf{l}_i)!}{(\mathbf{D}+s-\mathbf{n}-\mathbf{l}_i)!(\mathbf{n}-s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik},j_{sa}}^{DOSD} = \left( \sum_{k=1}^{\mathbf{i}^{l-1}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \frac{\sum_{j^{sa}=j_{sa}}^{l_{ik}+j_{sa}-\mathbf{i}^{l-k}+1}}{\frac{(n_i-j_{ik}+1) \cdot (n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}{(n_{ik}+\mathbb{k})(n_{ik}-\mathbb{k}-j_{ik}+1)} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!}} \cdot \right.$$

$$\left. \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j_{ik}-j_{ik}-1)! \cdot (n_i+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \cdot \right)$$

$$\frac{(l_{ik}-k-j_{sa}^{ik})!}{(l_{ik}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j^{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} +$$

$$\sum_{k=\mathbf{i}^l} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{l_{ik}+j_{sa}-\mathbf{i}^{l-k}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - {}_i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - {}_i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!}.$$

$$\left( \sum_{k=1}^{\mathbf{i}^{l-1}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} l_{ik} + j_{ik} - k - j_{sa}^{ik} + 1 \right)$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i-j_{ik}+1)}^{(n_i-j_{ik}-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{i}^{l-1}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{n_{sa}=\mathbf{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i-j_{ik}+1)}^{(n_i-j_{ik}-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{l=1}^{\min(n_i, n_{ik} - j_{ik} + 1)} \sum_{i=1}^{n_i - j_{ik} - l + 1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - {}_i l - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - {}_i l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k={}_i l}^{\mathbf{l}_{ik} - {}_i l + 1} \sum_{j_{ik}=j_{sa}^{ik}}^{j^{sa}} \sum_{j^{sa}=l_{ik}+j_{sa}-{}_i l-j_{sa}^{ik}+2}^{l_{sa}-{}_i l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - i_l - l - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - i_l + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - s_{sa} - l_{sa} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{sa} + 1) \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!}.$$

$$\frac{(D - l_{sa} - l_{sa} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{\left(\right)} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\left(\right)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{xz}S_{j_{sa}^{ik}}^{DC} = \left( \sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\lfloor l \rfloor} \sum_{\substack{j_{ik}=j_{sa}^{ik}}}^{\binom{l_{ik}-i}{l+1}} \sum_{\substack{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{\binom{n_i-j_{ik}+1}{n_{ik}}} \sum_{\substack{n_{sa}=n-j^{sa}+1}}^{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}{n_{sa}}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - i - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) +$$

$$\left( \sum_{k=1}^{\lfloor l \rfloor-1} \sum_{\substack{(j_{ik}=j_{sa}^{ik}+1)}}^{\binom{l_{ik}-k+1}{l_{ik}}} \sum_{\substack{l_{sa}-k+1}}^{\binom{l_{sa}-k+1}{l_{sa}}} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{\binom{n_i-j_{ik}+1}{n_{ik}}} \sum_{\substack{n_{sa}=n-j^{sa}+1}}^{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}{n_{sa}}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^{\mathbf{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\binom{\mathbf{l}_{ik}-i\mathbf{l}+1}{l_{sa}-i\mathbf{l}+1}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-i\mathbf{l}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+n_{sa}-j^{sa}-\mathbb{k}+1}^{n_{ik}+n_{sa}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (n_{ik} - n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{+ \mathbf{l}_{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{\binom{\mathbf{l}_{sa}+j_{sa}^{ik}-k}{l_s+j_{sa}^{ik}-k}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\binom{\mathbf{l}_s}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}} \sum_{( )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^n \sum_{\substack{( ) \\ j_{ik}=j_{sa}^{ik}}} \sum_{\substack{( ) \\ j^{sa}=j_{sa}}} \frac{\sum_{\substack{( ) \\ n_i=\mathbf{n}+\mathbb{k} \\ (n_{ik}=n_i-j_{ik}+1)}} \sum_{\substack{( ) \\ n_{sa} \\ (n_{sa}=n-s-\mathbb{k})}} \frac{(n_i + j_{ik} - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{sa}^{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}}{(D + s - \mathbf{n} - \mathbf{l}_i) \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_s \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} > \mathbb{m} \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = \mathbb{m} + \mathbb{k} \wedge$$

$$\mathbb{k}, \mathbb{m} \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \left( \sum_{k=1}^{D + l_{ik} + j_{sa} - \mathbf{n} - l_{sa} - j_{sa}^{ik} + 1} \right.$$

$$\left. \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{( )} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa} + 1)! \cdot (\mathbf{n} + j_{sa} - \mathbf{l}_{sa} - s)!} +$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}-j_{sa}^{ik}+1)}^{(n_{ik}-j_{ik}+1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{l_{ik}-k+1} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \mathbb{k} - 1)!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - n_{sa} + 1)!}{(l_{ik} - j_{ik} - n_{sa} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + \mathbb{k} - l_{ik} - n_{sa})!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - l_{sa} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{l_{ik}-1} \sum_{(j_{sa}=n-l_{sa}-j_{sa}^{ik}+2)}^{l_{ik}-k+1} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^{\infty} \sum_{\substack{j_{ik}=l_{ik}+n-D}}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}-1\right)} l_{ik}+j_{sa}-i l-j_{sa}^{ik}+1 \\ \sum_{n_i=n+\mathbb{k}}^{\infty} \sum_{\substack{\left(n_i-j_{ik}+1\right) \\ \left(n_{ik}=n+\mathbb{k}-j_{ik}+1\right)}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{\left(n_i-n_{ik}-1\right)!}{\left(j_{ik}-2\right)!\cdot\left(n_i-n_{ik}-j_{ik}+1\right)!} \\ \frac{\left(n_{ik}-n_{sa}-\mathbb{k}\right)!}{\left(j_{sa}-j_{ik}-1\right)!\cdot\left(n_{ik}-n_{ik}-n_{sa}-j^{sa}-\mathbb{k}\right)!} \\ \frac{\left(n_{sa}+1\right)!}{\left(n_{sa}+j^{sa}-\mathbf{n}-1\right)!\cdot\left(\mathbf{n}-j^{sa}\right)!} \\ \frac{\left(l_{ik}-i l-j_{sa}^{ik}\right)!}{\left(l_{ik}-j_{ik}-i l+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}-1\right)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^{\infty} \sum_{\substack{\left(l_{ik}-i l+1\right) \\ \left(j_{ik}=l_{ik}+n-D\right)}}^{l_{sa}-i l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^{\infty} \sum_{\substack{\left(n_i-j_{ik}+1\right) \\ \left(n_{ik}=n+\mathbb{k}-j_{ik}+1\right)}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ n_{sa}=n-j^{sa}+1$$

$$\frac{\left(n_i-n_{ik}-1\right)!}{\left(j_{ik}-2\right)!\cdot\left(n_i-n_{ik}-j_{ik}+1\right)!}.$$

$$\frac{\left(n_{ik}-n_{sa}-\mathbb{k}-1\right)!}{\left(j^{sa}-j_{ik}-1\right)!\cdot\left(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}\right)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \mathbf{l}_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{(n_{is}=l_i+n+j_{sa}-D-s-j_{sa}+1)}^{\left(\right)}$$

$$n_l + \mathbb{k} (n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})$$

$$\sum_{n_{ik}=n_{is}+j^{sa}-j_{sa}^{ik}}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\right)}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - s + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} - j_{sa}^{ik} - 1 \wedge$$

$$j_{ik} + j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1}$$

$$\sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}-j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-i+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_i - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{\substack{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}, \\ n_i=n-\mathbf{k}-j_{ik}+1, \\ n_{ik}=n-\mathbf{k}-j_{ik}+1, \\ n_{sa}=\mathbf{n}-j^{sa}+1}}^{(l_{ik}-k+1)} \sum_{\substack{(n_i-j_{ik}+1) \\ n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}}^{l_{sa}-k+1} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - j_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{i^{l-1}} \sum_{\substack{(j_{ik}=j_{sa}^{ik}+1) \\ n_i=n+\mathbb{k} \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{(l_{ik}-k+1)} \sum_{\substack{j^{sa}=l_{sa}+\mathbf{n}-D \\ n_{sa}=\mathbf{n}-j^{sa}+1}}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{(n_i-j_{ik}+1)} \sum_{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=\mathbf{n}-j^{sa}+1}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{l=1}^{\min(n_{ik} - l_{ik} + 1, n-D)} \sum_{j_{ik}=l_{ik}+n-D}^{n_{ik}-l_{ik}} \sum_{j_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - l_{ik} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - l_{ik} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=l}^{\max(l_{ik} - l_{ik} + 1, n-D)} \sum_{j^{sa}=l_{ik}+j_{sa}-l_{sa}+1}^{l_{ik}-l_{ik}+1} \sum_{j_{sa}=l_{ik}+j_{sa}-l_{sa}+2}^{l_{sa}-l_{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - l_i \mathbf{l} - j_{sa})}{(\mathbf{l}_{ik} - j_{ik} - l_i \mathbf{l} + \mathbf{l} - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} \mathbf{l} - l_{sa} - j_{sa})}{(j_{ik} + l_{sa} - l_{sa} - l_{sa} - l_{sa} \mathbf{l} - (j^{sa} + j_{sa}^{ik} - j_{sa} - j_{sa})!)}$$

$$\frac{(D - l_{sa} - l_{sa} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{\substack{D+l_s+j_{sa}^{ik}-l_i \\ (j_{ik}-l_i+n+j_{sa}^{ik}-D-s)}}^n \sum_{\substack{(\mathbf{l}_s+j_{sa}^{ik}) \\ (j_{ik}+j_{sa}^{ik}-j_{sa}-j_{sa}^{ik})}}^{(n_i-j_s+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{n} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1, \dots, i-1, j_{ik}=j^{sa}+j_{sa}-1}^{i-1} \sum_{l=j_{sa}+1}^{l_{sa}-k+1} \sum_{n_i=\mathbf{n}+\mathbb{k}(n_{ik}-\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(n_i - j_{ik} + 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{l(j_{ik}=j_{sa}^{ik})}^{\infty} \sum_{j^{sa}=j_{sa}}^{\infty}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^n \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{i-1} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}, \dots, i-k-j_{sa})}}^{} \sum_{j=i-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}(s-i)}^{\mathbf{n}_i} \sum_{\substack{( ) \\ (n_i=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{} -$$

$$\sum_{n_{ik}=\mathbf{n}+j_{sa}^{ik}-j_{ik}-\mathbb{k}}^{\mathbf{n}_{ik}+j_{sa}^{ik}-j_{ik}-\mathbb{k}} \sum_{\substack{( ) \\ (n_{ik}+j_{sa}^{ik}-j_{ik}-\mathbb{k}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}^{} -$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik}^{ik} - \mathbf{n} - j_{sa}^{ik} - s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa}^{ik} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=i}^n \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{} \sum_{j^{sa}=j_{sa}}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{ik}=n_i-j_{ik}+1)}}^{} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{l_{sa}-k+1}$$

$$\frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1, \dots, n_i = j^{sa} + j_{sa} - s}^{i-1} \sum_{l=j_{sa}+1}^{l_{sa}-k+1} \sum_{n_i=n+\mathbb{k}(n_{ik}=\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(n_i - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{l(j_{ik}=j_{sa}^{ik})}^{} \sum_{j^{sa}=j_{sa}}^{} \sum_{n_i=n+\mathbb{k}(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{} \sum_{\substack{l_{sa}-k+1 \\ (j^{sa}=l_i+n+j_{sa}-D-s)}}^{} \Delta$$

$$\sum_{n_i=n+\mathbb{k}}^{\infty} \sum_{\substack{( ) \\ (n_i=j^{sa}+j_{sa}^{ik}-j_{ik})}}^{} \Delta$$

$$\sum_{n_{ik}=n+\mathbb{k}}^{\infty} \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}^{} \Delta$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_{sa} + l_i - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$D \leq \mathbf{n} < n \wedge \mathbf{n} \leq D - l_i + 1 \wedge$

$j_{sa}^{ik} - j_{ik} \leq j^{sa} + j_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_{ik} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 \leq 1 \wedge l_{ik} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$l_i \leq D + j_{sa} - \mathbf{n} \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^l - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^l\} \wedge$

$s \geq 5 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DO\!SD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} - 1)!}{(l_{sa} + j_{ik} - n_{sa} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(\mathbf{n}_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k})}^{(\ )} \\
 & \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
 & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{sa}^{ik}-l_s-1)!} \cdot \\
 & \frac{(D-l_i)!}{(D+j_{sa}^s+s-\mathbf{n}-l_i-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}^s-j_{sa}^{sa}-s)!} \\
 & \sum_{k=1}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{} \sum_{j_{sa}^{sa}=j_{sa}}^{} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}+j_{ik}-1)}^{(n_i-j_s+1)} n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k} \\
 & \frac{(n_i+j_{ik}-s-j_{sa}^{ik}-\mathbb{k})!}{(n_i+j_{ik}-\mathbf{n}-j_{sa}^{ik}-\mathbb{k})! \cdot (\mathbf{n}-s)!} \cdot \\
 & \frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i) \cdot (\mathbf{n}-s)!} \\
 & D \geq \mathbf{n} < n \wedge l_s \leq s - \mathbf{n} + 1 \wedge \\
 & j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{sa} \leq j_{sa}^s \leq j_{ik} + j_{sa} - s \wedge \\
 & l_{ik} - l_{sa} - 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge \\
 & D + s - \mathbf{n} - l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa} \wedge \\
 & D \leq n \wedge I = \mathbb{k} > 0 \wedge \\
 & j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\
 & s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge \\
 & s \geq 5 \wedge s = s + \mathbb{k} \wedge
 \end{aligned}$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

~~$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!}.$$~~

~~$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$~~

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^l \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

~~$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$~~

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\begin{aligned} & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\ & \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-n-j_{sa}^{ik}-\mathbb{k})!} \cdot \frac{(n+j_{sa}^{ik}-j_{ik}-s)!}{(n_{is}+j_{ik}-n-j_{sa}^{ik}-\mathbb{k})!} \cdot \\ & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \cdot \frac{(l_{ik}-j_{sa}-1)!}{(l_{ik}+j_{sa}^{ik}-j_{sa}-1)!} \cdot \\ & \frac{(D-1)!}{(D+j^{sa}+s-n-j_{sa})!} \cdot \frac{(D-j_{sa}-j^{sa}-s)!}{(D+j^{sa}+s-n-j_{sa})!} \end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} \wedge j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D - s - n \wedge$$

$$D \geq n < n \wedge l_i - \mathbb{k} > 0 \wedge$$

$$j_{sa} - j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbb{s} \wedge s = s +$$

$$\mathbb{K}_z : z = 1$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik} = j_{sa}^{ik} + \mathbb{k} - j_{ik} + 1)}} \sum_{\substack{( ) \\ (n_{ik} + j_{ik} - j^{sa} - \mathbb{k} \\ n_{sa} = n - j^{sa} + 1)}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k})}^{( )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\mathbf{n}} \sum_{\substack{(j_{ik}=j_{sa}^{ik}) \\ (j_{ik}-j_{sa}^{ik}=\mathbb{k})}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^{\mathbf{n}} \sum_{\substack{(j_{ik}=j_{sa}^{ik}) \\ (j_{ik}-j_{sa}^{ik}=\mathbb{k})}} \sum_{n_{sa}=j_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} \wedge \dots \wedge$$

$$l_{ik} - \mathbb{k} + 1 = \mathbf{l}_s \wedge \dots + j_{sa}^{ik} - j_{sa} = \dots \wedge l_{sa} + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \wedge D + \mathbf{l}_s - s - \mathbf{n} - \mathbf{l}_i \wedge$$

$$D \geq \dots < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{i-1} \wedge j_{sa}^{ik} < j_{sa}^{i-1} + 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s < s + \mathbb{k} \wedge$$

$$s + \mathbb{k} = 1$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{ik}-k+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{ik} - k - l_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} - l_{ik} - l_{sa} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - l_{sa} - l_{ik} - s)!} +$$

$$\Delta \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}+1)} \sum_{j^{sa}=j_{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^i-j_{sa}^k} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - \mathbb{k})!}$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa}^{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} \wedge \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1.$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - \mathbb{k} \wedge j_{sa}^s \leq j_{sa}^{sa} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + 1 \wedge$$

$$\mathbb{k} \wedge z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_{sa}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\infty} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}} \sum_{\substack{( ) \\ (j^{sa}=j_{sa})}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{(n_{ik}-j_{ik}-j^{sa}-\mathbb{k}) \\ (n_{sa}=n+\mathbb{k}-j^{sa}+1)}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - j_{ik} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - \mathbb{k} + 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{l_i=1}^{D+l_s+s-\mathbf{n}} \sum_{\substack{( ) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}} \sum_{\substack{( ) \\ (j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{\infty} \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_{Z^{sa}}(j^{sa}) = \sum_{k=1}^{i^{l-1}(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{\substack{j_{ik}=j_{sa}^{ik}+1 \\ j^{sa}=l_{ik}+j_{sa}-k-j_{sa}+2}}^{l_{ik}-k+1} \sum_{l_i+j_{sa}-k-s+1}^{l_i+j_{sa}-k-s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1) \\ n_{sa}=\mathbf{n}-j^{sa}+1}}^{n_{ik}-j_{ik}+1} \sum_{l_i+j_{sa}-k-s+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{sa}^{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{i}}^{\mathbf{l}} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{l_i+j_{sa}-i} \sum_{l_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-i l-s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_{ik}-j_{ik}+1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+\mathbf{l}_s+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{\mathbf{l}_{ik}+j_{sa}^{ik}-\mathbf{l}_{ik}-j_{sa}^{ik}+1} l_{ik}+j_{sa}^{ik}-\mathbf{l}_{ik}-j_{sa}^{ik}+1$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{l}_s} \sum_{\substack{( ) \\ (n_i=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{n_i-\mathbb{k}}$$

$$\sum_{n_{ik}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{n_{is}-\mathbb{k}} \sum_{\substack{( ) \\ (n_{ik}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{is} - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$(\mathbf{l}_s - k - 1)!$$

$$\frac{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$(D - \mathbf{l}_i)!$$

$$\frac{(D + j_{sa} - \mathbf{s} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}{(D + j_{sa} - \mathbf{s} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$(\mathbf{n} \geq \mathbf{n} < n \wedge n \leq D - \mathbf{s} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{sa} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s - j_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} - \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \vee$$

$$\mathbf{n} \geq \mathbf{n} \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = & \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}+1)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j_{sa}=l_i+n+j_{sa}^{ik}-s}^{l_i+j_{sa}-k-s+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^{(n_i-j_{ik}+1)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \sum_{j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(n_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_i+j_{sa}-k-s+1} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}. \end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - k + 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{k=1}^{\min(n_i, \mathbf{l}_{ik} - j_{ik})} \sum_{j^{sa}=j_{ik}-k+1}^{n_i-j_{ik}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\mathbf{l}_s+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}} \sum_{(j_{ik}=\mathbf{l}_i+n+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^i-j_{sa}^k} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \binom{\text{ )}}{\text{ )}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - \mathbb{s})!}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa}^{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} \wedge \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - \mathbb{s} \wedge j_{sa}^s \leq j_{sa}^{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + 1 \wedge$$

$$\mathbb{k}, z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{i-1} \sum_{\substack{(l_s + j_{sa}^{ik} - k) \\ (j_{ik} = j_{sa}^{ik})}}^{\mathbf{l}_{i-1}} \sum_{\substack{(l_i + j_{sa} - k - s + 1) \\ (n_{sa} = l_s + j_{sa}^{ik} - k + 1)}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = n+\mathbb{k} - j_{ik} + 1)}}^{\mathbf{n}} \sum_{\substack{(n_{ik} + j_{ik} - s + 1 - \mathbb{k}) \\ (n_{sa} = n - j^{sa} + 1)}}$$

$$\frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - j_{sa} - \mathbb{k} - 1)!}{(j^{sa} - n_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^i \sum_{\substack{(\ ) \\ (j_{ik} = j_{sa}^{ik})}}^{\mathbf{l}} \sum_{\substack{(l_i + j_{sa} - i) \\ (l_{i-1} + j_{sa} - i + 1)}}^{l-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = n+\mathbb{k} - j_{ik} + 1)}}^{\mathbf{n}} \sum_{\substack{(n_{ik} + j_{ik} - j^{sa} - \mathbb{k}) \\ (n_{sa} = n - j^{sa} + 1)}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}, \quad n_{sa}=l_i+n+j_{sa}-D)}}^{} \sum_{\substack{( ) \\ (l_i+j_{sa}) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{} \cdot$$

$$\sum_{\substack{( ) \\ (n_{ik}=n_{is}+j_{is}^{ik}-j_{sa}, \quad n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}^{} \cdot$$

$$\frac{(s - \mathbb{k})!}{(n_{is} + j_{is}^{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} + j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + j_{sa} = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+1)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_i+j_{sa}-k-s+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (j_{ik} - n_{ik} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - s + 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\ \frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_i+j_{sa}-k-s+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{\substack{( ) \\ j_{ik}=j_{sa}^{ik}}}^{\mathbf{l}_i + \mathbf{n} + j_{sa}^{ik} - D - s} \frac{l_{i+j_{sa}^{ik}-l-s+1}}{n_i = n + \mathbf{k} + j_{ik} - 1} \sum_{\substack{( ) \\ n_{ik}+j_{ik} = n - j^{sa} + 1}}^{(n_i - j_{ik} - 1)} \frac{n_{ik} + j_{ik} - \mathbf{k}}{(n_i - n_{ik})} \frac{(n_i - n_{ik})}{(n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} + j_{sa} - \mathbf{k} - 1)!}{(j^{sa} - n_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbf{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D + l_s + s - \mathbf{n} - l_i} \sum_{\substack{( ) \\ j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - s}}^{l_s + j_{sa}^{ik} - k} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = n + \mathbf{k}}^n \sum_{\substack{( ) \\ n_{is} = n + \mathbf{k} + j_{sa}^{ik} - j_{ik}}}^{(n_i - j_s + 1)} (n_{is} - s - \mathbf{k})!$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{\mathbf{l}_s} \sum_{\substack{( ) \\ (n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbf{k})}}$$

$$\frac{(n_{is} - s - \mathbf{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbf{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^i \leq j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_s^s, \dots, j_{sa}^{ik}, \dots, \mathbf{j}_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s = 5 \wedge s = s \wedge \mathbb{k} \wedge$$

$$\mathbb{k}_z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(l_{ik} - k + 1)} \sum_{j^{sa} = j_{sa} + j_{sa} - k - j_{sa}^{ik} + 1}^{k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_l-n-\mathbb{k})} \sum_{n_{sa}=n-j^{sa}+1}^{n-i_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n - 1)!}{(j_{ik} - j_{ik} + 1) \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{(j_{ik} = j_{sa}^{ik})}^{(n_i - j_{ik} + 1)} \sum_{j^{sa} = j_{sa}}^{l_{sa} - i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - \mathbf{j}_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (\mathbf{j}^{sa} - j_{sa})!}$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{i=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}-j_{sa})}^{} \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{=n+\mathbb{k}}^{( )} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{( )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{sa}^s - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=_l} \sum_{(j_{ik}=j_{sa}^{ik})}^{} \sum_{j^{sa}=j_{sa}}^{(\ )}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{(\ )}$$

$$\frac{(n_i + j_{ik} - s - j_{sa}^{ik} - \mathbb{k})!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$l_i \leq D + s - \mathbf{n}) \vee$

$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$l_i \leq D + s - \mathbf{n}) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} - s = \mathbb{k} - 1 \wedge$

$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^1\} \wedge$

$s \geq 5 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^n \sum_{\substack{( ) \\ i_k = j_{sa}^{ik}}} \sum_{\substack{( ) \\ j_{sa} = j_{sa}^{ik}}} \sum_{\substack{( ) \\ n_i = n + \mathbf{k} \\ n_{ik} = n + \mathbf{k} - j_{ik} + 1 \\ n_{sa} = n - j^{sa} + 1}} \sum_{\substack{( ) \\ n_{ik} + j_{ik} = n_{sa} - j^{sa} - \mathbf{k}}} \sum_{\substack{( ) \\ n_i - n_{ik} \\ n_{ik} - 2 \\ (n_i - n_{ik} - j_{ik} + 1)!}} \cdot$$

$$\frac{(n_{ik} + j_{sa} - \mathbf{k} - 1)!}{(j^{sa} - n_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbf{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{i^{l-1}} \sum_{\substack{( ) \\ (j_{ik} = j_{sa}^{ik} + 1)}} \sum_{\substack{( ) \\ j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}} \sum_{\substack{( ) \\ n_i = n + \mathbf{k} \\ n_{is} = n + \mathbf{k} + j_{sa}^{ik} - j_{ik}}} \sum_{\substack{( ) \\ n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik}}} \sum_{\substack{( ) \\ n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbf{k}}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}} \sum_{\substack{( ) \\ (n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik})}} \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}} \sum_{\substack{( ) \\ (j^{sa}=j_{sa})}} \frac{\sum_{i=1}^n \sum_{\substack{( ) \\ (n_{ik}=n_i-j_{ik}+1)}} \sum_{\substack{( ) \\ (n_{sa}=n-s-j_{sa}-k)}} \frac{(n_i + j_{ik} - j_{sa}^{ik} - k)!}{(n_i + j_{ik} - \mathbf{n} - j_{sa}^{ik} - k)! \cdot (\mathbf{n} - s)!}}{(D + s - \mathbf{n} - \mathbf{l}_i) \cdot (\mathbf{n} - s)!}.$$

$$\begin{aligned} & ((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & \mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge \\ & D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \vee \\ & (D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & \mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge \\ & D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge \\ & D \geq \mathbf{n} < r \wedge I = \mathbb{k} > 0 \wedge \\ & j_{sa} - j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\ & s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge \\ & s \geq 5 \wedge s = s + \mathbb{k} \wedge \\ & \mathbb{k}_z: z = 1 \Rightarrow \end{aligned}$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{(j^{sa}+j_{sa}^{ik}-j_{sa}) l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_{ik} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{ik})!}{(l_{ik} + j^{sa} - l_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + \mathbb{k} - l_{ik} - s)!}{(j_{ik} + j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D - j_{sa} - \mathbb{k} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-s-n-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-i\mathbf{l}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}}^{n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_k - 1)!}{(n_i - 2)! \cdot (n_i - n_k - j_{ik} + 1)!} \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\ \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D-s-n-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\begin{array}{c} \\ \end{array}\right)}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$

$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} - s > \mathbb{k} - 1 \wedge$

$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^1\} \wedge$

$s \geq 5 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-k+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{i^{l-1}} \sum_{\substack{(l_{ik}-k+1) \\ (j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}+1)}}^{} \sum_{\substack{(l_{sa}-k+1) \\ (n_{ik}-j_{ik}+1)-j_{sa}}}^{}.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-\mathbb{k}-1) \\ (n_{ik}-j_{ik}+1)}}^{} \sum_{\substack{(n_{ik}+j_{ik}-\mathbb{k}) \\ (n_{sa}=n-j^{sa}+1)}}^{}.$$

$$\frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - j_{sa} - \mathbb{k} - 1)!}{(j^{sa} - n_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{l}}^{\mathbf{l}} \sum_{\substack{(\ ) \\ (j_{ik}=j_{sa}^{ik})}}^{} \sum_{\substack{\mathbf{l}_{sa}-i^{l+1} \\ (j^{sa}=l_{sa}+\mathbf{n}-D)}}^{}.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{} \sum_{\substack{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}) \\ (n_{sa}=n-j^{sa}+1)}}^{}.$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - \mathbf{l}_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{\substack{(l_{ik}-k+1) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s) \wedge j^{sa}=j_{ik}+j_{sa}-s}} \dots$$

$$\sum_{\substack{(n_{is}-k+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}} \dots$$

$$\sum_{\substack{( ) \\ (n_{ik}=n_{is}+j_{is}^{ik}-j_{sa}^{ik}) \wedge (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}} \dots$$

$$\frac{(s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{\mathfrak{l}-1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{\mathfrak{l}-1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{ik}-k+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - \mathfrak{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + \mathfrak{l} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=\mathfrak{l}}^{\mathfrak{l}} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{ik}-\mathfrak{l}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{ik}-\mathfrak{l}+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - \mathfrak{l} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - \mathfrak{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{ik}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+j_{sa}^{is}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{ik}}^{(\mathbf{n}-s-\mathbb{k})} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k})}^{(\mathbf{n}-s-\mathbb{k})}$$

$$\frac{(\mathbf{n}-s-\mathbb{k})!}{(n_{is}+j_{ik}-\mathbf{n}-j_{sa}-\mathbb{k})! \cdot (\mathbf{n}+j_{sa}-j_{ik}-s)!}.$$

$$\frac{(\mathbf{n}-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-s)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

$$(D + l_i)!$$

$$\frac{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}{(D + j_{sa} - l_{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \wedge D + l_s - \mathbf{n} < n - 1 \wedge$$

$$D \geq \mathbf{n} - s \wedge I = \mathbb{k} > 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} \leq j^{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{K}_z : z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOsD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-k-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{ik} - l_{sa} - s)!}{(\mathbf{l}_{ik} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - n_{sa} - s)!} +$$

$$\sum_{k=1}^{l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_i+j_{sa}-l_i l-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - l_{sa} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - l_{sa} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (\mathbf{l}_s + j_{sa}^{ik} - k - 1)!} \cdot$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j_{sa}^s + s - \mathbf{n} - j_{sa}^{ik} - j_{sa}^s - s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{sa}^s - s)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa}^s - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa}^s - j_{ik} \wedge \mathbf{l}_i - j_{sa}^s - s = \mathbf{l}_s \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + j_{sa}^s - j_{sa}^{ik} + j_{sa} - \mathbf{n} - s \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{i-1} \wedge j_{sa}^{i-1} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{i-1} - 1 \wedge \\ \{j_{sa}^{i-1}, \dots, j_{sa}^i\} \subseteq \{\mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbb{k} \wedge s = s + \mathbb{k} \wedge$$

$$\Pi_x : z = \dots \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}^s}^{DO SD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_i+j_{sa}^{ik}-k-s+1)} \sum_{j_{sa}^s=j_{ik}+j_{sa}^s-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^s+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{\substack{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s) \\ (n_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}} \binom{\mathbf{l}_i + j_{sa}^{ik} - \mathbf{l} - s + 1}{j_{ik} - j_{sa}^{ik} - 1} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_{ik} = n + \mathbb{k} + j_{ik} + 1) \\ (n_{sa} = n - j^{sa} + 1)}} \binom{n_i - j_{ik} - j^{sa} - \mathbb{k}}{j_{ik} - j_{sa}^{ik} - 1} \cdot$$

$$\frac{(n_i - j_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - \gamma_{ik} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (\mathbf{l}_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{\substack{(l_s + j_{sa}^{ik} - k) \\ (j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i - j_{sa}^{ik} + 1) \\ (n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}} \binom{n_i - j_{sa}^{ik} + 1}{n_{is} - j_{sa}^{ik} + 1}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\substack{(\ ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}} \binom{(\ )}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j_{sa}^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{sa} - s)!}.$$

$$((\mathbf{D} \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{ik} \leq D + \mathbf{l}_s + j_{sa}^{ik} - \mathbf{n} - 1 \vee$$

$$(\mathbf{D} \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{ik} \leq D + \mathbf{l}_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq (\mathbf{D} + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(\mathbf{D} \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < r \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} - j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j_{sa}}^{DOSSD} = & \sum_{k=1}^{\lfloor l-1 \rfloor} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\lfloor \rfloor} \sum_{j_{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^{sa}}^{n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa}^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{sa} - \mathbb{k})!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(n_{sa} + j_{sa}^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa}^{sa})!} \cdot \\
& \frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{ik}^{ik})!}{(l_{ik} - j_{ik} - \mathbf{l} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{sa} - s)!} + \\
& \sum_{k=1}^{\lfloor l-1 \rfloor} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\lfloor \rfloor} \sum_{j_{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-\lfloor l-j_{sa}^{ik}+1 \rfloor} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa}^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa}^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa}^{sa})!} \cdot \\
& \frac{(\mathbf{l}_{ik} - \lfloor l - j_{sa}^{ik} \rfloor)!}{(\mathbf{l}_{ik} - j_{ik} - \lfloor l - j_{sa}^{ik} \rfloor + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+j_{sa}-n-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_{ik}+n+j_{sa}-D-j_{sa}^{ik}}^{l_s+j_{sa}-k}$$

$$\begin{aligned} & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-\mathbb{k})}^{(n_i-j_s+1)} \\ & \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-n-j_{sa}^{ik}-\mathbb{k})! \cdot (n+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\ & \frac{(l_s-k+1)!}{(l_s+j_{sa}-l_{ik}-k+1)! \cdot (j_{ik}+j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D-s)!}{(D+j^{sa}+s-n-j_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!} \end{aligned}$$

$$\begin{aligned} & ((D \geq n < n \wedge l_s \leq D - n + 1 \wedge \\ & j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge \\ & D + j_{sa} - n \leq l_{ik} \leq n + l_s + j_{sa}^{ik} - n) \vee \\ & ((D \geq n < n \wedge l_s \leq D - n + 1 \wedge \\ & j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\ & D + j_{sa} - n \leq l_{sa} \leq D + l_s + j_{sa} - n - 1) \wedge \\ & j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\ & s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge \\ & s \geq 5 \wedge s = s + \mathbb{k} \wedge \end{aligned}$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = & \sum_{k=1}^{\underline{l}-1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{\left(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\left(n_i-j_{ik}+1\right) \quad n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{\left(n_i-n_{ik}-1\right)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{\left(n_{ik}-n_{sa}-\mathbb{k}-1\right)!} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \cancel{\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}} \cdot \\
& \cancel{\frac{(l_{ik} - \underline{l} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}} \cdot \\
& \cancel{\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}} + \\
& \sum_{k=1}^{\underline{l}} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{\left(l_{sa}+j_{sa}^{ik}-\underline{l}-j_{sa}+1\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\left(n_i-j_{ik}+1\right) \quad n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{\left(n_i-n_{ik}-1\right)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{\left(n_{ik}-n_{sa}-\mathbb{k}-1\right)!} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \cancel{\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}} \cdot \\
& \cancel{\frac{(l_{ik} - \underline{l} - l - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - \underline{l} + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}} \cdot \\
& \cancel{\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}} -
\end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{\left(l_s+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned} & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^n \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j^{sa}-\mathbb{k})}^{(n_i-j_s+1)} \\ & \frac{(n_{is}-s-\mathbb{k})!}{(n_{is}+j_{ik}-n-j_{sa}^{ik}-\mathbb{k})!(n+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\ & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!(j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D-s)!}{(D+j_{sa}^s+s-n-j_{sa})!(n+j_{sa}-j^{sa}-s)!}. \end{aligned}$$

$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}) \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge$

$D + j_{sa} - 1 < l_{sa} \leq D + l_{ik} + j_{sa} - n + j_{sa}^{ik} \wedge$

$D + s - n < l_i \leq D + l_{sa} - s - n + j_{sa}) \vee$

$((D \geq n < n \wedge l_s \leq D - n + 1) \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$(j_{sa}^s < l_{sa} \leq D + l_s + j_{sa} - n - 1) \wedge$

$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_{sa}+n-D}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - s + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{ik} + l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{\substack{( ) \\ (j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s)}} \sum_{\substack{( ) \\ (n_i=j_{ik}+1) \\ (n_{ik}+j_{ik}=\mathbf{n}+j_{sa}-1)}}^{\substack{( ) \\ (n_{ik}+j_{ik}=\mathbf{n}+j_{sa}-1)}} \frac{(n_i - n_{ik})!}{(n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} + j_{sa} - \mathbf{k} - 1)!}{(j^{sa} - n_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbf{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{\substack{( ) \\ (j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s)}} \sum_{\substack{( ) \\ (n_i=j_{ik}+1) \\ (n_{is}=\mathbf{n}+\mathbf{k}+j_{sa}^{ik}-j_{ik})}}^{\substack{( ) \\ (n_{is}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k})}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k})}} \sum_{\substack{( ) \\ (n_{is}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k})}}^{\substack{( ) \\ (n_{is}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k})}}$$

$$\frac{(n_{is} - s - \mathbf{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbf{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbf{l}_{ik} \wedge \mathbf{l}_i - j_{sa} - s = \mathbf{l}_i \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{i_s} - 1 \wedge j_{sa}^{i_s} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{i_k} - 1 \wedge$$

$$s \in \{j_{sa}^{i_s}, \dots, j_{sa}^{i_k}\} \wedge \{j_{sa}^{i_s}, \dots, j_{sa}^{i_k}\} \wedge$$

$$s \geq \mathbb{k} \wedge s = s + \mathbb{k}$$

$$\mathbb{E}_z: z =$$

$${}_{fz}S_{j_{ik},j^{sa}}^{DO SD}=\sum_{k=1}^{i l-1} \sum_{\left(j_{ik}=j_{sa}^{ik}+1\right)}^{\left(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1\right)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{\left(n_{ik}=n+\mathbb{k}-j_{ik}+1\right)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - l_{sa})!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{\substack{(1+j_{sa}^{ik}-k) \\ = l_{sa}+n+(j_{sa}^{ik}-k-D-j_{sa})}}^l \sum_{\substack{l_{sa}-k+1 \\ = l_{sa}-j_{sa}}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i^l} \sum_{\substack{(\ ) \\ (j_{ik}=j_{sa}^{ik})}}^l \sum_{\substack{l_{sa}-i^{l+1} \\ j^{sa}=l_{sa}+\mathbf{n}-D}}$$

**gi** **u** **d** **u** **s** **u** **g** **i**

$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$

$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$

$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!} \cdot$

$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$

$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - l_{ik} - s)!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - s)!} \cdot$

$\frac{(\mathbf{l}_{sa} - l_{sa} - s)!}{(\mathbf{l}_{sa} - j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j^{sa} - s)!} -$

$\sum_{n_i=n+\mathbb{k}}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+\mathbb{k}-j_{sa}-D-s)}^{(l_s+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{ik}^{lk}}^{n}$

$\sum_{n_{is}=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(n_i-j_s+1)}$

$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$

$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$

$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$

$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$

$(\mathbf{l}_s - k - 1) < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa} - j_{sa}^{ik} > l_{ik} \wedge j_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1)$$

$$D \geq \mathbf{n} < n \wedge \mathbb{k} > \mathbf{n} \wedge$$

$$j_{sa}^i \leq j_{sa}^{ik} - 1 \wedge j_{sa}^i \leq j_{sa} - s \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^s, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = \mathbb{k} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: \mathbb{k} \Rightarrow$$

$$fzS_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{ik}+n-D)} \sum_{j^{sa}=l_{sa}+n-D}^{(j^{sa}+j_{sa}^{ik}-j_{sa}) l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{ik} + 1)!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{i^k} \sum_{(j_{ik}=a+1)}^{(l_{ik}-k+1)} \sum_{j_{sa}=k+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}+1}^n \sum_{n_{ik}=n+\mathbb{k}-j_{ik}+1}^{(n-i_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{l_i} \sum_{(j_{ik}=l_{ik}+n-D)}^{\binom{l_{ik}-i}{l_{ik}-i+1}} \sum_{j^{sa}=l_{sa}+n-D}^{\binom{l_{sa}-i}{l_{sa}-i+1}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\binom{n_i-j_{ik}+1}{n_i-j_{ik}+1}} \sum_{n_{sa}=n-j^{sa}}^{\binom{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - i - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} - i - \mathbb{k})! \cdot (n - j^{sa})!} \\
& \frac{(l_{ik} - i - \mathbb{k})!}{(l_{ik} - i - \mathbb{k} - 1)! \cdot (j_{ik} - l_{sa} - 1)!} \\
& \frac{(l_{sa} + n - l_{ik} - \mathbb{k})!}{(j_{ik} + i - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\
& \frac{(D + i - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{\substack{D+l_s+s-\mathbb{k}-l_i \\ =1}}^{\infty} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{}{}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{\binom{l_s+j_{sa}-k}{l_i+n+j_{sa}-D-s}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{\binom{n_i-j_{is}+1}{n_i-j_{is}+1}} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\binom{}{}} \\
& \frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - n - j_{sa}^{ik} - \mathbb{k})! \cdot (n + j_{sa}^{ik} - j_{ik} - s)!} \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$((D \geq n < n \wedge l_s \leq D - n + 1 \wedge$   
 $j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$   
 $j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$   
 $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$   
 $D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$   
 $(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$   
 $j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$   
 $j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$   
 $l_{sa} - j_{sa} + 1 > l_s \wedge$   
 $D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$   
 $D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$   
 $(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$   
 $j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$   
 $j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$   
 $D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)$   
 $(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$   
 $j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$   
 $j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$   
 $l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$   
 $D + j_{sa} - n < l_{sa} \leq D + (l_s + j_{sa} - n - 1) \wedge$   
 $D \geq s - n \wedge I = k > 0 \wedge$   
 $j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$   
 $\{s, \dots, j_{sa}^{ik}, \dots, k, j_{sa}, \dots, j_{sa}^i\} \wedge$   
 $s \geq 5 \wedge s = s + k \wedge$   
 $k_z : z = 1 \Rightarrow$

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$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n - 1)!}{(n + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - n_{ik} + 1)!}{(l_{ik} - j_{ik} - n_{sa} + 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - n_{sa})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - l_{sa} - s - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l_{ik}-i_l+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{l_{sa}-i_l+1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-i_l+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}-j^{sa}-\mathbb{k}}^{n_{ik}+1} \frac{(n_i - j_{ik} - 1)!}{(n_i - j_{ik} - 1)! \cdot (n_i - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - j_{ik} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSL} = \sum_{k=1}^{i^{ik}-j_{sa}^{ik}+1} \sum_{(j_{ik}=\mathbf{l}_{ik}+\mathbf{n}-D)} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{lk}+2}^{l_i+j_{sa}-k-s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - n_{ik} - j_{sa}^{lk})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbb{k} + 1)! \cdot (j_{ik} - j_{sa}^{lk} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - \mathbb{k})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^{l_{ik}-i+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{l_i+j_{sa}-i} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-i-s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - {}_i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - {}_i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{D+l_s+j_{sa}-n-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}, \quad s=j_i+n+j_{sa}-D-s)}^{} l_s^{( )} \cdot {}_{l_{sa}-k} \Delta$$

$$\sum_{n=n+\mathbb{k}}^{\infty} \sum_{(n_{ls}+n_{sa}+n_{ik}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s)} \Delta$$

$$\sum_{n_{ik}=n_{ls}+j_{sa}^{ik}-j_{sa}}^{n_{ik}+j_{ik}-j_{sa}^{ik}} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k})$$

$$\frac{(n_{is} - \mathbb{k})!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa} - s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{sa} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_{sa} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s - j_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - s \leq l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$n - s \leq \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$\mathbb{k}_z : z = 1 \Rightarrow$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{l-1 (l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-k-s+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa} - 1)!} \\
& \frac{(l_{sa} + j_{sa}^{ik})!}{(j^{sa} + j_{sa}^{ik} - l_{ik})!} \frac{(l_{ik} - j_{sa})!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{l-1 (l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_i+j_{sa}-k-s+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{l}_{ik} - \mathbf{l}_{ik} + 1} \sum_{j^{sa} = \mathbf{l}_{i+1} + \dots + j_{sa} - D - s}^{l_i + j_{sa} - l_{i-s+1}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{n_{ik} = n + \mathbb{k} - j_{ik} + 1}^{(n_i - j_{ik} + 1)} \sum_{n_{sa} = n + \mathbb{k} - j^{sa} - \mathbb{k}}^{n_{ik} + \dots + j_{sa} - D - s}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - \mathbb{k} - 1)! \cdot (n_{ik} - n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_{ik} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - \mathbf{j}_{ik} - \mathbf{l}_{ik} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D + \mathbf{l}_s + j_{sa} - \mathbf{n} - \mathbf{l}_{sa}} \sum_{j_{ik} = \mathbf{l}_{i+1} + \dots + j_{sa}^{ik} - D - s}^{(\mathbf{l}_s + j_{sa}^{ik} - k)}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik}}^{(n_i - j_{s+1})}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik}}^{} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k})}^{(\ )}$$

$$\frac{(n_{is} - s - \mathbb{k})!}{(n_{is} + j_{ik} - \mathbf{n} - j_{sa}^{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

gÜLDÜNYA

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
& \sum_{k=1}^{l_{sa}-j_{sa}^{ik}+1} \binom{j_{sa}^{ik} + l_{sa} - k}{k} \\
& \sum_{(j_{ik}=l_s+n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{\infty} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) + \\
& \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_s+\mathbf{n}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-k} \right)
\end{aligned}$$

**gİÜD**

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 \frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 \frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} + l_{ik} - l_{sa} - j_{sa})!} \cdot \\
 \frac{(s + j_{sa} - \mathbf{n} - s)!}{(\mathbf{D} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
 \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}} \sum_{(j_{ik}+j_{sa}-l_{ik}-l_{sa}-D-1)}^{(l_s+j_{sa}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1} \\
 \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+2}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - n_{ik} - 1)!}{(l_{ik} - j_{ik} - n_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + \mathbb{k} - l_{ik} - s)!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - \mathbf{n} - s)!}{(D + j^{sa} - \mathbf{n} - n_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) - \\
& \sum_{l_i=1}^{D+l_s+s-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\right)} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
& S_{i_k, j^{sa}}^{DOSD} \\
& \sum_{k=1}^{l_{sa} + j_{sa}^{ik} - l_{sa} - j_{sa}^{ik} + 1} \\
& \sum_{(l_s + \mathbb{k} - k)} \\
& \sum_{=l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa}} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 1)}^{(n_i - j_{ik} + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) + \\
& \left( \sum_{k=1}^{D + l_{ik} + j_{sa} - \mathbf{n} - l_{sa} - j_{sa}^{ik} + 1} \sum_{(j_{ik} = l_s + \mathbf{n} + j_{sa}^{ik} - D - 1)}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{j^{sa} = l_{sa} + \mathbf{n} - D}^{l_{sa} - k + 1} \right)
\end{aligned}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik} - (j_{sa}^{ik} - j_{sa}) - j_{sa})!}.$$

$$\frac{(s + j_{sa} - \mathbf{n} - s)!}{(D + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+j_{sa}-l_{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+2}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - l_{sa} - j_{ik} - k)!}{(l_{ik} - j_{ik} - n_{sa} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{sa} + \mathbb{k} - l_{ik} - s)!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - \mathbf{n} - s)!}{(D + j^{sa} - \mathbf{n} - n_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) - \\
& \sum_{\substack{D+l_s+s-\mathbf{n}-l_i \\ \Delta=1}}^{\infty} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}^{ik}-k)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\infty} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee \\
& (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \wedge
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$\begin{aligned}
& j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\
& s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge
\end{aligned}$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j_{sa}}^{DOSD} = & \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \\
& \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{+ j_{sa}^{ik} \cdot (l_{ik} - j_{sa})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{D-n+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{ik}-k+1)} \sum_{(j_{sa}=n-j^{sa}+n-D)}^{(n-k+1)}$$

$$\sum_{n_i=n-\mathbf{k}}^n \sum_{(n_{ik}=n+\mathbf{k}-j_{ik}+1)}^{(n_i-n_{ik}+1)} \sum_{(n_{sa}=n-j^{sa}+1)}^{(n_{ik}+j_{sa}-\mathbf{k})}$$

$$\frac{(n_i - n_{ik} + 1)!}{(j_{ik} - 2) \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} + 1)!}{(j^{sa} - j_{ik} - 1) \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{(j^{sa}=l_i+n+j_{sa}-D-s)}^{(l_s+j_{sa}-k)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{( )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\begin{aligned} & ((D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & \mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \vee \end{aligned}$$

$$\begin{aligned} & (D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & \mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \wedge \end{aligned}$$

$$\begin{aligned} & D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge \\ & j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^i \leq j_{sa}^{ik} - 1 \\ & \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa} - 1, \dots, j_{sa}^i\} \wedge \\ & s = 4 \wedge s = \mathbb{k} \wedge \mathbb{k}_{z^s} = 1 \Rightarrow \end{aligned}$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \left( \sum_{k=1}^{D + l_{ik} + j_{sa} - \mathbf{n} - l_{sa} - j_{sa}^{ik} + 1} \right)$$

$$\begin{aligned} & \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \end{aligned}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{\substack{(j_{ik}=l_{ik}+n-k) \\ (j^{sa}=l_{sa}+n-k)}}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa})-(l_{sa}-k+1)} \right)$$

$$\frac{\sum_{\substack{(n_i=n+k) \\ (n_{ik}=n+k-j_{ik}+1)}}^{(n_i-n-k-1)} n_{sa}=n-j^{sa}+1}{(j_{ik}-n-k+1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_i - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=D+s-j_{sa}-n-\mathbf{l}_{sa}-j_{sa}^{ik}}^{D-n+\mathbf{l}_{sa}} \sum_{(j_{ik}=l_{ik}+k-1)}^{(j_{ik}-k+1)} \sum_{(j^{sa}=l_{sa}+n-D)}^{(j^{sa}+1)}$$

$$\sum_{n_i=n-s-k}^n \sum_{(n_i=j_{ik}+1)}^{(n_i+l_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^{sa} + s - \mathbf{n} - j_{sa}^{sa})! \cdot (\mathbf{n} + j_{sa}^{sa} - j_{sa}^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - l_{ik} \wedge l_i - j_{sa}^{sa} - s > l_i \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{sa} \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \bullet 4 \wedge s = s \wedge \mathbb{k} \wedge$$

$$\mathbb{k}_{z,s} = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik},j_{sa}^{sa}}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=j_{sa}^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j_{sa}=l_s+\mathbf{n}+j_{sa}-D-1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{} \binom{\text{ )}}{j_{ik}-j_{sa}^{ik}} \sum_{l_{sa}=\mathbf{l}_i+n+k-s-D-s}^{l_{sa}+j_{sa}-k} \sum_{n_i=n+\mathbb{k}(n-\mathbf{n}+k+j_{sa}^{ik}-j_{ik})}^{n_i} \sum_{n_{ik}=n_i+j_{sa}^{ik}-j_{sa}}^{n_{ik}+j_{sa}^{ik}-j_{sa}} \sum_{a=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{n_{ik}+j_{sa}^{ik}-j_{sa}}$$

$$\sum_{n_{ik}=n_i+j_{sa}^{ik}-j_{sa}}^{n_{ik}+j_{sa}^{ik}-j_{sa}} \sum_{a=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{n_{ik}+j_{sa}^{ik}-j_{sa}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s - 1)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa}^{ik} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \leq \mathbf{n} < n \wedge \mathbf{l}_s < D - n - 1 \wedge$$

$$j_{sa}^{ik} - \mathbb{k} \leq j_{ik} \leq j^{sa} \wedge j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_{ik} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^{ik} - 1 \leq j_{sa}^i \leq j_{sa}^{ik} \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DO, SD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_s - j_{ik} - n - 1)!}{(l_{ik} - j_{ik} - n - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_s - l_{sa} - s)!}{(D - j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l_s+s-\mathbf{n}} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_i+s+j_{sa}^{ik}-j_{sa}^{ik}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\right. \left.\right)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{} \sum_{l_i+n+j_{sa}-D-s}^{l_{i,j_{sa}}-1} \cdot \\ \frac{(n_i - n_{ik} - j_{ik} + 1)!}{(j_{ik} - 2) \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_i - n_{sa} - 1)!}{(j_{ik} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_{sa}+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{} \sum_{l_s+n+j_{sa}-D-j_{sa}^{ik}}^{l_{s,j_{sa}}-k} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{sa}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_{2k+1}^{DOSD}(j^{sa}) = \sum_{i=1}^{D-s+1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_i+j_{sa}^{ik}-k-s+1)} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-n-l_{sa}} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned} & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\ & \frac{\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\Delta)} (n_{sa}=n_{ik}+j_{sa}^s-j_{sa}^{sa}-\mathbb{k})}{(n_{ik}+j_{ik}-n-\mathbb{k}-j_{sa}^s)! (n+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\ & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-s-1)! (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D-s)!}{(D+j_{sa}^{sa}+s-n-\mathbb{k}-j_{sa})! \cdots (n+j_{sa}-j_{sa}^{sa}-s)!} \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - i \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{sa} \geq l_{ik} \wedge l_{sa} - j_{sa} - s = l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \neq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^s\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: \mathbb{Z}^{\geq 1} \Rightarrow$$

$${}_{fz}S_{j_{ik}, j_{sa}}^{DO SD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D-n+1} \sum_{\substack{(j_{ik}=l_s+j_{sa}^{ik}-k) \\ (j_{sa}=l_s+j_{sa}-k+1)}}^{} \sum_{\substack{(l_s+j_{sa}^{ik}) \\ (l_i+j_{sa}-s+1)}}$$

$$\sum_{\substack{n \\ n_i=n+\dots+n_{ik}=n+k-j_{ik}+1}}^n \sum_{\substack{(n-j_{ik}+1) \\ (n_{ik}+j_{ik}-j^{sa}-k)}}^{} \sum_{\substack{n_{ik}+j_{ik}-j^{sa}-k \\ n_{sa}=n-j^{sa}+1}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^s + s - \mathbf{n} - j_{sa}^s - i_0)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{sa}^s - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa}^s - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s - l_{ik} \wedge l_i - j_{sa}^s - s = l_i \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^s, \dots, j_{sa}^i\} \wedge$$

$$s \neq 4 \wedge s = s - \mathbb{k} \wedge$$

$$\mathbb{k}_{z,s} = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j_{sa}^s}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j_{sa}^s=l_i+n+j_{sa}^s-D-s}^{l_i+j_{sa}^s-k-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^s+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^s - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^s)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}}^{(\mathbf{l}_{ik}-k+1)}$$

$$\sum_{n_i=1}^n \sum_{(n_{ik}=n+i-k+1)}^{(n_i-1)} \sum_{n_{sa}=n-j^{sa}+1}^{(j_{ik}-j^{sa}-\mathbf{k})}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - j_{ik} + 1) \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{ik} - s) \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^i-j_{sa}^k} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k})} \frac{(n_{ik}+j_{sa}^i-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^i-j_{ik}-s)!}.$$

$$\frac{(l_s-k-1)!}{(l_s+j_{sa}^i-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^i-\mathbb{k}-s)!}.$$

$$\frac{(D-l_i)!}{(D+j_{sa}^i+s-\mathbf{n}-l_i-j_{sa}^i)! \cdot (l_i+j_{sa}^i-s-a-s)!}.$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^i + 1 \leq j_{ik} \leq j_{sa}^s + j_{sa}^i - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^i + 1 = l_s \wedge l_{sa} + j_{sa}^i - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^i + 1 \leq j_{ik} \leq j_{sa}^s + j_{sa}^i - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^i + 1 = l_s \wedge l_{sa} + j_{sa}^i - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{K} = 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^s - 1 \wedge j_{sa}^i = j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^i, \dots, j_{sa}^s, \mathbb{K}, j_{sa}^s, \dots, j_{sa}^i\} \wedge$$

$$\geq 4 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik} j_{sa}}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_s+n+j_{sa}^i-D-1)}^{(j_{sa}^s+j_{sa}^i-j_{sa})} \sum_{j_{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{\substack{(l_{ik} = l_s + k, j_{ik} = D-k-1) \\ (j_{ik} = l_s + k, j_{ik} = D-1)}}^{\mathbf{l}_{ik} + j_{sa}^{ik} - k} \sum_{k=1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_i-j_{ik}} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{\left(\right)} \\
 & \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
 & \frac{(l_s-l_i-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{sa}^{ik}-l_i-1)!} \cdot \\
 & \frac{(D-l_i)!}{(D+j_{sa}^s+s-\mathbf{n}-j_{sa}^{ik})! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{sa}^s-s)!}
 \end{aligned}$$

$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s - 1 \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} - 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s \wedge l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \leq 3 \wedge$

$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$

$s \geq 4 \wedge s = \mathbb{k} + \mathbb{k} \wedge$

$$f_z S_{j_{ik}, j_{sa}}^{DOSS} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - l_{sa} - j^{sa} - \mathbf{l}_{ik} - 1)! \cdot (j_{sa} + l_{sa} - \mathbf{l}_{ik} - j_{sa})!}.$$

$$\frac{(l_{sa} + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-l_{sa}} \sum_{(j_{ik}=l_{sa}+1+j_{sa}^{ik}-D-j_{sa})}^{(\mathbf{l}_s + j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\begin{aligned}
 & \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
 & \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-\mathbb{k})}^{(n_i-j_s+1)} \\
 & \quad \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_s^s)} \frac{( )}{(n_{ik}+j_{ik}-n-\mathbb{k}-j_{sa}^s)!(n+j_{sa}^{ik}-j_{ik}-s)!} \\
 & \quad \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-l_{ik}-1)!(l_{ik}-j_{sa}^{ik}-1)!} \\
 & \quad \frac{(D-1)!}{(D+j_{sa}^{sa}+s-n-\mathbb{k}-j_{sa})!(n+j_{sa}-j_{sa}^{sa}-s)!} \\
 & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
 & j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - i \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee \\
 & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
 & j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - i \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\
 & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
 & j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge \\
 & D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge \\
 & j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge
 \end{aligned}$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-}^{l_{sa}-k+1} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik})}^{(n_i-j_{ik}+1)} \sum_{(n_{sa}=n-\mathbb{k}-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})} \\
 & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\
 & \frac{(j_{sa}-j_{ik}-1)!}{(j^{sa}-j_{ik}-1) \cdot (n_{ik}+j_{ik}-j^{sa})!} \cdot \\
 & \frac{(\mathbf{n}-1)!}{(n_{sa}-n-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \cdot \\
 & \frac{(\mathbf{n}-k-j_{sa})!}{(n_{ik}-j_{ik}+1)! \cdot (j_{ik}-j_{sa}-1)!} \cdot \\
 & \frac{(D+j_{sa}-l_{sa}-s)!}{(D+\mathbf{n}-\mathbf{n}-l_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} - \\
 & \sum_{k=1}^{l_s+j_{sa}-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^i}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\right)} \\
 & \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
 & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot
 \end{aligned}$$

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$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^i \leq j_{sa}^{ik} - 1$

$s: \{j_{sa}^s, \dots, j_{sa}^i\} \subset \mathbb{k}, j_{sa} \in \{j_{sa}^s, \dots, j_{sa}^i\} \wedge$

$s \geq 4 \wedge s = s + 1 \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z S_{j_{ik}, j^{sa}}^{DOSED} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik} = \mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa})}^{(\mathbf{l}_{sa} + j_{sa}^{ik} - k - j_{sa} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{\substack{(l_s+j_{sa}^{ik}-k) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D)}} \sum_{\substack{(n_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}) \\ (n_i=n+\mathbb{k})}} \sum_{\substack{(n_i-j_{sa}^s) \\ (n_{ik}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}$$

$$\sum_{n_{ik}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa}^s} \sum_{\substack{(n_{ik}+j_{sa}^{ik}-\mathbb{k}-j_{sa}^s) \\ (n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - \mathbb{k} - j_{sa}^s)!}{(j_{ik} + j_{sa}^{ik} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa} - s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + j_{sa}^s \leq j_{ik} \leq j^{sa} + j_{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_{sa} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j_{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2) \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa})!} \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa})!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} - \\ \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j_{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k})}^{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!} \\ \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} - j_{sa}^{ik} = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^t\}$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \bullet 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DO SD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\infty} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\mathbf{l}_s+j_{sa}^{ik}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_s-j_{sa}^{ik}-n_{sa}-j_{sa}^{ik}-\mathbb{k})}^{(n_i-1)}$$

$$\frac{(n_{ik}-j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbf{l}_i-j_{sa}^s)! \cdot (n_i+j_{sa}^{ik}-j_{ik}-s)!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - j_{ik} - k + 1)!}{(\mathbf{l}_{ik} + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - 1)!}{(\mathbf{l}_{ik} + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k)!}{(D - \mathbf{l}_i)!} \cdot$$

$$\frac{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \wedge j^{sa} + j_{sa} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{\infty} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} l_{ik}+j_{sa}-k-j_{sa}^{ik}+1 \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - s + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n_{ik} + j_{sa}^{ik} - l_{ik})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_i+j_{sa}-k-s+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}, \quad l_{ik}+n+j_{sa}-l_i+n+j_{sa}-D-s)}^{\left(\right.} l_s^{(n-i-k)} \cdot$$

$$\sum_{n_i=n+\mathbb{k}(n_{ls}+n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s)} \sum_{(n_{ik}=n+i^{sa}-j_{sa}^{ik}, \quad l_{ik}+n+j_{sa}-l_i+n+j_{sa}-D-s)}$$

$$\sum_{n_{ik}=n+i^{sa}-j_{sa}^{ik}, \quad l_{ik}+n+j_{sa}-l_i+n+j_{sa}-D-s}^{(n_{ik}+j_{sa}^{ik}-l_i-n-k-j_{sa})!} \sum_{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k})}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - l_i - \mathbb{k} - j_{sa})!}{(j_{ik} + n + j_{sa} - l_i - \mathbb{k} - j_{sa})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa} - s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$(D \geq \mathbf{n} < n \wedge I \geq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + n \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - l_i - \mathbb{k} \leq j^{sa} \leq l_i + j_{sa} - s \wedge$$

$$l_{ik} + j_{sa} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + n \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}j_{sa}}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j_{sa}=l_i+j_{sa}-D-s}^{l_i+j_{sa}-k-s+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2) \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})! \cdot (j_{sa}^{ik} + j_{sa} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_i+j_{sa}-k-s+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2) \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \mathbf{l}_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s) \leq j_{sa}=j_{ik}+j_{sa}-j_{sa}}^{(l_s+j_{sa}^{ik}-k)} \sum_{n_l=\mathbf{k}+j_{sa}^{ik}-j_{ik}}^{(j_{sa}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{n_l} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k})}^{( )}$$

$$\frac{(n_{ik} + j_{sa} - s - \mathbf{k} - j_{sa}^s)!}{(n_{ik} + j_{ik})! \cdot (\mathbf{n} - \mathbf{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_s - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOS_k} = \sum_{k=1}^{D-n} \sum_{(j_{ik}=l_{ik}+n-D)} \sum_{j^{sa}=l_{sa}+n-D}^{(j_{ik}+j_{sa}-j_{sa}^{ik})} \sum_{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_s=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{ik} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1) \cdot (n_{sa} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - l_{ik} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - k + 1) \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 1 \wedge$

$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^{ik}, j_{sa}^i, j_{sa}^s, \dots, j_{sa}^1\} \wedge$

$s \geq 4 \wedge s = i + \mathbb{k} \wedge$

$\Rightarrow$

$$fzS_{j_{ik}, j_{sa}}^{DOSED} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

**gündem**

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} + j_{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(l_{ik} - k)^{l_{ik} - k}}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} + j_{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} + j_{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\sum_{D=1}^{l_{ik}-k} \sum_{(j_{ik}-l_{ik}+1) \leq j_{sa} \leq (j_{ik}-l_{ik}+1)+l_{sa}-k}^{(l_{ik}-k)^{l_{ik}-k}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\frac{\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{n} \sum_{(n_{sa}=n_{ik}+j_{sa}-j_{sa}^s-\mathbb{k})}^{(n_i-j_s+1)}}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! (n_{ik}+j_{sa}^{ik}-j_{ik}-s)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(D-\mathbf{n})!}{(D+j_{sa}^s+s-n-\mathbb{k}-j_{sa})! \cdots (n_{ik}+j_{sa}-j_{sa}^s-s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge$$

$$l_{sa} \leq \mathbf{n} + j_{sa} - \mathbf{n} \wedge n_{sa} \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I - \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{ik} - 1 \wedge j_{sa}^{ik} = j_{ik} - 1 \wedge j_{sa} \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq \mathbf{n} \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{\substack{k=1 \\ j_{ik}=j_{sa}+1}}^{i^{l-1} - (j_{sa}^{ik}-k)} \sum_{\substack{s_a=l_s+j_{sa}-k+1 \\ s_a=l_s+j_{sa}-k+1}}$$

$$\sum_{\substack{n_i=n+\mathbb{m} \\ n_i=n+\mathbb{m} \\ n_i=n+\mathbb{m}}}^n \sum_{\substack{(n-i_{ik}+1) \\ n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}}^{} \sum_{\substack{n_{sa}=n-j^{sa}+1 \\ n_{sa}=n-j^{sa}+1}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\infty} \sum_{( )}^{\infty} \sum_{j^{sa}=j_{sa}}^{l_{sa}-i^{l+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - l_{ik} - s)!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - s)!}.$$

$$\frac{(\mathbf{l}_{sa} + l_{sa} - s)!}{(D - j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{l-1} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=_l}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{(\ )}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{sa}}^{SD} = \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{\min(n_i + j_{ik} - \mathbb{k}, n_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{\mathbf{l}_{sa}-\mathbf{i}^{l+1}} \sum_{j^{sa}=j_{sa}}^{l_{sa}-i^{l+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}}^{n_{ik}+j_{ik}-j^{sa}} \sum_{n_s=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - 1 - 1)!} \cdot$$

$$\frac{(n_{ik} - n_s - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - j_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(j_{sa}^{ik} - 1)!}{(l_{sa} + j_{sa}^{ik} - l_{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{\substack{(l_s+j_{sa}^{ik}-k) \\ (j_{ik}=j_{sa}^{ik}+1)}}^{l_s+j_{sa}^{ik}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{n_{is}+j_{sa}^{ik}-j_{ik}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{\mathbf{l}_s} \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}^{n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{l \in \binom{j_{ik} = j_{sa}^{ik}}{j_{sa}}} \sum_{j_{sa} = j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s) \cdot (n - s)!}$$

$$\frac{(D - l_i)}{(D + s - n - 1) \cdot (n - s)!}$$

$$D \geq n < n \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} - j_{sa}^{ik} = \mathbb{k} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\}$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \bullet 1 \Rightarrow$$

$$\omega_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{l-1} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa} = j_{sa} + 1}^{l_{ik} + j_{sa} - k - j_{sa}^{ik} + 1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa}^{sa} - n - 1)! \cdot (n - j_{sa}^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}} \sum_{\substack{j^{sa}=j_{sa}}} \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \Big) +$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{\substack{(j^{sa}+j_{sa}^{ik}-j_{sa}-1) \\ (j_{ik}=j_{sa}^{ik}+1)}} \sum_{j^{sa}=j_{sa}+2}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{\substack{j_{ik}=j_{sa}^{ik}+1 \\ j^{sa}=\mathbf{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+2}}^{(\mathbf{l}_{ik}-k+1)} \sum_{l_{sa}=j_{sa}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_{ik}-j_{ik}+1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}-j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (n_i + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{sa}^{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^n \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{(n_i-j_{ik}+1)} \sum_{l_{sa}=j_{sa}+1}^{l_{sa}-i_l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_{ik}-j_{ik}+1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{(j^{sa}=j_{sa}+1)}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n=\mathbf{n}+\mathbb{k}}^{\left(\right)} \sum_{(n_{ls}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s)}$$

$$\sum_{n_{ik}=n_i-j_{sa}^{ik}}^{(n_i-j_{sa}^{ik}-\mathbb{k})} \sum_{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(D + s - \mathbf{n} - \mathbf{l}_s - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{(j^{sa}=j_{sa})}^{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{i_{ik}, j_{sa}}^{DOSD} = \frac{\left( \sum_{k=1, \dots, n_i=j_{sa}+j_{sa}^{ik}-1}^{i-1} \sum_{l=j_{sa}+1}^{l_s+j_{sa}-1} \right) (n_i - n_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} + 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}}^{( )}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\left( \sum_{k=1}^{l-1} \sum_{\substack{(j_{ik}=j_{sa}+k+1) \\ j^{sa}=j_{sa}}}^{l-1} l_{sa} - n_{sa} - k \right)$$

$$\sum_{\substack{n_i = n + \mathbb{k} \\ (n_{ik} = n + \mathbb{k} - j_{ik} + 1)}}^n \sum_{\substack{(n_{sa} = n - j^{sa} + 1) \\ j_{ik} - j^{sa} = \mathbb{k}}}^{n_{ik} - j_{ik} + 1}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{\substack{(l_s + j_{sa}^{ik} - k) \\ (j_{ik} = j_{sa}^{ik} + 1)}}^{l-1} \sum_{\substack{l_{sa} - k + 1 \\ j^{sa} = l_s + j_{sa} - k + 1}}^{l_{sa} - k + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = n + \mathbb{k} - j_{ik} + 1)}}^{n_{ik}} \sum_{\substack{n_{ik} + j_{ik} - j^{sa} - \mathbb{k} \\ n_{sa} = n - j^{sa} + 1}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}_{ik}} \sum_{\substack{( ) \\ (j_{ik} = j_{sa}^{ik})}}^{l+1} \sum_{j^{sa}=j_{sa}+1}^{l+1}$$

$$\sum_{n_i=n+\mathbb{m}}^n \sum_{\substack{(n-i_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_{ik}} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}}^{l-1} \sum_{j^{sa}=j_{sa}+1}^{l_s + j_{sa} - k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^s + s - \mathbf{n} - l_i - 1)! \cdot (\mathbf{n} + j_{sa}^s - j_{sa}^{ik} - s)!}$$

$$\sum_{k=1}^r \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_{sa} < D + j_{sa}^s - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^s \leq j_{sa}^s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^s + 1 \leq j_{sa}^i \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^s + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D \geq \mathbf{n} < r \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^s - j_{sa}^s - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \left( \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{ik} - k - 1)!}{(l_{ik} - j_{ik} - k - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \Big) +$$

$$\left( \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} + l_{sa} - j_{sa})!}.$$

$$\frac{(D + j^{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=-l}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{\infty} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-l_{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\left. \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) -$$

$$\begin{aligned}
 & \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k+1)}^{\infty} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k}^{(l_{ik}-k+1)} \\
 & \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^k-1)}^{(n_i-j_s+1)} \\
 & \quad \sum_{n_{ik}=n_{is}+j_{sa}^k-j_{sa}^k}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{sa}^k-j^{sa}-\mathbb{k})}^{\infty} \\
 & \quad \frac{(n_{ik}+j_{sa}^k-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^k-j_{ik}-s)!} \cdot \\
 & \quad \frac{(l_{ik}-k-1)!}{(l_{ik}+j_{sa}^k-j_{ik}-1) \cdot (j_{ik}+j_{sa}^k-1)!} \cdot \\
 & \quad \frac{(D-l_i)!}{(D+j^{sa}+s-\mathbf{n}-l_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} - \\
 & \quad \sum_{k=l}^{\infty} \sum_{(j_{ik}=j_{sa}^k)}^{\infty} \sum_{j^{sa}=j_{sa}}^{j_{sa}^k} \\
 & \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\infty} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{\infty} \\
 & \quad \frac{(n_{ik}+j_{sa}^k-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}-s)!} \cdot \\
 & \quad \frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-s)!}
 \end{aligned}$$

~~**A**~~  
~~**Y**~~  
~~**D**~~  
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~~**U**~~

$D \geq \mathbf{n} < n \wedge I = D - \mathbf{n} + 1 \wedge$   
 $j_{sa}^i \leq j_{ik} \leq j^{sa} + j_{sa}^k - j_{sa} - 1 \wedge$   
 $j_{ik} + j_{sa} \geq j_{sa}^k + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$   
 $l_{ik} - j_{sa}^k + 1 = l_s \wedge l_{sa} + j_{sa}^k - j_{sa} > l_{ik} \wedge$   
 $l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$   
 $D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$   
 $j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^k = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^k - 1 \wedge$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = & \left( \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}^{ik}-k)} \right. \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{sa} + 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(n_{ik} - 1)!}{(l_{ik} - j_{ik} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
 & \sum_{k=l}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}^{(\mathbf{n})} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) +
 \end{aligned}$$

**gündüz**

$$\begin{aligned}
 & \left( \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+j_{sa}^{ik}-k)} \sum_{l_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1} \right. \\
 & \quad \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-k} \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \quad \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \quad \frac{(l_{ik} - j_{ik} - k - 1)!}{(l_{ik} - j_{ik} - k - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \quad \frac{(l_{sa} + j_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 & \quad \frac{(D + i - l_{sa} - s)!}{(D + i - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
 & \quad \sum_{k=i}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-i+1} \\
 & \quad \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-k} \\
 & \quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \quad \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.
 \end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(l_s + j_{sa}^{ik} - k)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{is} - j_{sa}}^{n_i} \sum_{n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (l_s + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l)!}{(D + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^l \sum_{(j_{ik} = j_{sa}^{ik})}^{(\ )} \sum_{j^{sa} = j_{sa}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{(\ )} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < r \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-l_{sa}-j_{sa}^{ik}+1} \right) \cdot \frac{\left( \sum_{i=k}^{l_{ik}+j_{sa}-n+1} (n_i - n_{ik} - 1)! \right)}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) +$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \frac{(l_{ik}-k+1)}{(j_{ik}-j_{sa}^{ik}+1) \cdot j^{sa}=l_{ik}} \cdot \frac{l_{sa}-k+1}{j_{sa}^{ik}+2} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-\mathbf{l}_{ik}-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i-n_{ik}-1)!}{(n_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} + j_{ik} - l_{sa} - j_{sa})!}.$$

$$\frac{(j_{ik} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=-l}^{\lfloor \frac{l_{sa}-l_{ik}}{2} \rfloor} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-l_{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\mathbb{k})}^{\Delta} \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)!(n_{ik}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k-1)!(j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D-k)!}{(D+j^{sa}+s-n-\mathbb{k}-j_{sa})! \cdots (n+j_{sa}-j^{sa}-s)!}}{A}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq j_{ik} + j_{sa} - \mathbf{n} + j_{sa} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} \leq l_{sa} \leq \mathbf{n} + l_{ik} + j_{sa} - \mathbf{n} + j_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I - \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq s' \wedge s = s + \mathbb{m} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge$$

$${}_{fz}S_{j_{ik}j^{sa}}^{DOsD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \right.$$

$$\left. \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-k} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_{sa} - l_{sa} - s)!}{(D - j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j^{sa} - l_{sa} - s)!} +$$

$$\left( \sum_{s=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}+1} \sum_{j_{ik}^{sa}+1}^{(j^{sa}+j_{sa}-l_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_s+j_{sa}-k} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - n_{ik} - j_{ik})!}{(l_{ik} - j_{ik} - n_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + \mathbb{k} - l_{ik} - j_{sa})!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j^{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{l-1} \sum_{j^{sa}=l_{sa}+n-D}^{(l_s+j_{sa}^{ik}-k)} \sum_{l_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-s-n-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\mathbf{l}}{\mathbf{l}}} \sum_{j^{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{\mathbf{l}_{sa}-\mathbf{i}\mathbf{l}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_{sa}+j_{ik}-1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(n_i - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (j_{sa} + j_{ik} - j_{sa} - 1)!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D-s-n-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\mathbf{l}}{\mathbf{l}}} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l}_s+j_{sa}-k} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\binom{\mathbf{l}}{\mathbf{l}}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\mathcal{S}_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D+l_{ik}+j_{sa}-n-\mathbf{l}_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n_i-j_{ik}+1} \sum_{n_{ik}=\mathbf{n}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Biggr) +$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{ik} - k + 1)!}{(l_{ik} + j_{sa} - l_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa} - l_{ik} - s)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j^{sa} - j_{sa} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{sa}^{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\ \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{i=l}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-i l+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+n+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_{ik}-k+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\infty} \sum_{(n_i=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-k)}$$

$$\sum_{n_{ik}=n+\mathbb{k}+j_{sa}^s-j_{sa}^{ik}}^{n_{ik}} \sum_{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - \mathbb{k} - j_{sa}^s)!}{+ j_{ik} - \mathbb{k} - j^{sa} - \mathbb{k}! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa} - \mathbf{s} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{sa} \leq j^{sa} + j_{sa}^i - j_{sa} - 1$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - \mathbb{k} + 1 = \mathbf{l}_s - \mathbf{s} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{s} \leq \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$> \mathbf{n} - \mathbf{s} \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$\mathbb{k}_z: z = 1 \Rightarrow$

$${}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \right.$$

$$\begin{aligned} & \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(n_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \\ & \sum_{k=1}^{D+l_{ik}+j_{sa}-l_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}. \end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{l_{sa}=n-D-j_{sa}^{ik}+1}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbf{k}}^n \sum_{(n_i-j_{ik}+1)}^{(n_i-n_{ik}-1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbf{k}}^n \sum_{(n_{ik}=n+\mathbf{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - k)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}) \\ (j_{ik}=j_{sa})}}^{\mathbf{n}+l_{sa}-i l+1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k})} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - \mathbb{k})!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (l_i + j_{sa}^{sa} - \mathbb{k} - sa - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} \wedge \dots \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{m}$$

$$\mathbb{k}, z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\phantom{0}}{\phantom{0}}} \sum_{j^{sa}=j_{sa}}^{l_{sa}-\mathbf{l}+1} \frac{\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_{sa}+j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i-n_{ik}-1)!}{(n_i-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa})!}{(j^{sa}-j_{sa}-1)! \cdot (j_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \cdot \frac{(n_{sa}+1)!}{(n_{sa}+j_{sa}^{ik}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa}^{ik})!} \cdot \frac{(\mathbf{l}_s-\mathbf{l}-j_{sa}^{ik})!}{(\mathbf{l}_{ik}-j_{ik}-\mathbf{l}+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}}{(D + j_{sa} - \mathbf{l}_{sa} - s)!} -$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\phantom{0}}{\phantom{0}}} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{s+1})} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\binom{\phantom{0}}{\phantom{0}}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\binom{\phantom{0}}{\phantom{0}}}$$

$$\frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}.$$

$$\frac{(\mathbf{l}_s-k-1)!}{(\mathbf{l}_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{\substack{( ) \\ j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{ik}=n_i-j_{ik}+1)}} \sum_{n_{sa}=n_{ik}-j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - \mathbb{j})!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - \mathbb{j} - \mathbb{s})! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbb{k} - l_i) \cdot (\mathbf{n} - s)}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^i, \dots, j_{sa}^s\} \wedge j_{sa} \in \{j_{sa}, \dots, j_{sa}^s\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k}$$

$$\mathbb{k}_z : z = \dots \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik}+1)}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_{ik} = j_{sa}^{ik})}^{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l} - j_{sa} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i+1)}^{(n_i-j_{ik}-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_i+j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_i - n_{sa} - 1)!}{(j_{ik} - j_{sa} + 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_i - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(\mathbf{l}_s + j_{sa}^{ik} - k)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=0}^{\mathbb{k}} \sum_{\substack{(i_{ik}=j_{sa}^{ik}) \\ i_{ik}+j_{sa}^{ik} \leq \mathbb{k}}} \sum_{a=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(i_{ik}+1) \\ n_{sa} \leq i_{ik}+j_{ik}-j^{sa}-\mathbb{k}}} \sum_{a=j_{sa}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + s - \mathbb{k}) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 \geq l_s \wedge j_{ik} + j_{sa}^{ik} - j_{sa} \geq$$

$$l_i \leq D + s - \mathbf{n},$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 \geq l_s \wedge$$

$$\leq D + s - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \\
& \frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - 1 + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(l_{ik} + l_{sa} - l_{ik} - j^{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}
\end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{\substack{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{ik}) \\ (n_i=n+\mathbf{k})}} \sum_{\substack{(l_{ik}-i_l+1) \\ (n_i-j_{ik}+1)}}^{\substack{(l_{ik}-i_l+1) \\ (n_i-j_{ik}+1)}} \sum_{\substack{(n_{ik}+j_{ik}-j_{sa}) \\ (n_{ik}-n_{ik}-1)}}^{\substack{(n_{ik}+j_{ik}-j_{sa}) \\ (n_{ik}-n_{ik}-1)}}$$

$$\frac{(n_i - n_{ik})!}{(n_i - n_{ik} - 1)!} \cdot \frac{(n_i - n_{ik} - j_{ik} + 1)!}{(n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(\mathbf{n} - n_{sa} - 1)!}{(\mathbf{n} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!}{(i_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{i_l-1} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}}^{\substack{( )}} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbf{k}}^n \sum_{\substack{( ) \\ (n_{is}=\mathbf{n}+\mathbf{k}+j_{sa}^{ik}-j_{ik})}}^{\substack{( )}} (n_i-j_{sa}+1)$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k})}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}^{\substack{( )}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \sum_{k=1}^{\mathbb{n}} \sum_{\substack{(i_{ik} = j_{sa}^{ik}) \\ i_{ik} \leq j_{sa}^{ik}}} \sum_{a=j_{sa}}^{\mathbb{k}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(i_{ik}+1) \\ i_{ik}+1 \leq j_{sa}^{ik}}} \sum_{n_{sa}=n_i+j_{ik}-j^{sa}-\mathbb{k}}^{\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(\mathbf{l}_i + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + s - \mathbb{k}) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 \geq l_s \wedge j_{ik} + j_{sa}^{ik} - j_{sa} \geq$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 \geq l_s \wedge$$

$$\leq D + s - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}+1)}^{l_{ik}-k+1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{ik}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - 1 + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{ik} + l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^{l_{ik}-i^{l+1}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik}-i^{l+1})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - {}_i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - {}_i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{{}_i\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}, \dots, j_{ik}+j_{sa}^{ik}-j_{sa})}^{(\mathbf{l}_s+j_{sa}^{ik}-k)}$$

$$\sum_{n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_i-j_{sa}^{ik}-j_{sa}^{ik} \dots =n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_i - l_i)!}{(D + j^{sa} - s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_i\mathbf{l}}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{\infty} \sum_{j^{sa}=j_{sa}}^{\infty}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\infty} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{\infty}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(\mathbf{l}_i - l_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j_{sa}}^{DOSSD} = \left( \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n)} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}+1} \right) \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_i - n_{sa} - 1)!}{(j_{ik} - n_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n)} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\left( \sum_{k=1}^{i_l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=j_{sa}+2}^{l_{sa}-k-j_{sa}^{ik}+1} \right) \cdot$$

$$\frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}-j_{ik}-j^{sa}-\mathbb{k}}}{(n_i - j_{ik} - 1)!} \cdot$$

$$\frac{(n_i - j_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i_l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{n_i} \sum_{\substack{(n_{ik}+j_{sa}^{ik}-s-1) \\ (j_{ik}+j_{sa}^{ik})}}^{\mathbf{l}_{ik}+j_{sa}} \sum_{j^{sa}=j_{sa}+1}^{j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{m}}^n \sum_{\substack{(n-i_{ik}+1) \\ (n_{ik}+j_{ik}-1)}}^{\mathbf{n}} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(l_{ik}-i_l+1\right)} \sum_{l_{sa}=l_{ik}+j_{sa}-i_l-j_{sa}^{ik}+2}^{l_{sa}-i_l+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{\left(n_i-j_{ik}+1\right)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(n_{sa} - i_l - l_{sa})!}{(l_{ik} - j_{ik} - i_l - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(l_{sa} + \mathbf{n} - l_{ik} - s)!}{(j_{ik} + i_l - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\
& \frac{+ i_s (l_{sa} - s)!}{(\mathbf{D} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) - \\
& \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}+j_{sa}-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{\left(n_i-j_{is}+1\right)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\right)} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - 
\end{aligned}$$

$$\sum_{k=1}^n \sum_{\substack{(j_{ik}=j_{sa}^{ik})}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s) \cdot (n - s)!}$$

$$\frac{(D - l_i)!}{(D + s - n - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} - j_{sa}^{ik} = \mathbb{k} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^1\}$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \bullet 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{l-1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{ik}-k+1)} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \right).$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^{\mathbf{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\binom{\mathbf{l}_{ik}-i\mathbf{l}+1}{l}} \sum_{j^{sa}=n+j_{sa}-j_{sa}^{ik}}^{\binom{\mathbf{l}_{ik}-i\mathbf{l}+1}{l}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\binom{n_i-j_{ik}+1}{l}} \sum_{n_{sa}=n-j^{sa}+1}^{\binom{n_i-j_{ik}+1}{l}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \Big) +$$

$$\left( \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{\binom{\mathbf{l}_{ik}-k+1}{l}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\binom{\mathbf{l}_{sa}-k+1}{l}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\binom{n_i-j_{ik}+1}{l}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{\binom{n_i-j_{ik}+1}{l}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\mathbf{l}_{ik}-\mathbf{l}\right)} \sum_{l_{sa}=l+1}^{l_{sa}-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}+1)}^{(n_i-j_{ik}-1)} \sum_{n_{ik}+j_{ik}-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j_{sa}^{ik}} \sum_{=n-j^{sa}+1}^{=n-j^{sa}+1} \frac{(n_i - n_{ik})}{(n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(\mathbf{n} - n_{sa} - 1)!}{(n_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(j_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \sum_{k=1}^{\mathbf{n}} \sum_{\substack{(i_{ik} = j_{sa}^{ik}) \\ (i_{ik} \neq j_{sa}^{ik})}} \sum_{a=j_{sa}}^{\mathbf{n}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(i_{ik} = j_{sa}^{ik} + 1) \\ (i_{ik} \neq j_{sa}^{ik} + 1)}} \sum_{n_{sa}=n_i + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(\mathbf{n} + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - \mathbf{l}_i + 1 > \mathbf{l}_s \wedge i_{ik} + j_{sa}^{ik} - j_{sa} >$$

$$D + j_{sa} - \mathbf{n} < j_{sa} \leq D + j_{sa} - \mathbf{n} + j_{sa}^{ik} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, \dots, j_{sa}^i, j_{sa}\} \wedge$$

$$s \geq 4 \wedge s < \mathbf{n} + \mathbb{k} \wedge$$

$$z \cdot z = 1$$

$${}_{fz}S_{j_{ik},j^{sa}}^{DO SD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \right)$$

$$\begin{aligned}
 & \sum_{\substack{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{\left(\begin{array}{c} l_{ik}+j_{sa}-k-j_{sa}^{ik}+1 \\ j^{sa}=l_{sa}+\mathbf{n}-D \end{array}\right)} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + \mathbf{n} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
 & \sum_{k=1}^{n-l_{sa}-\mathbb{k}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.
 \end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!}.$$

$$\frac{(l_{ik} - l_{sa} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - j_{sa}^{ik} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=-l}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{\substack{j_{ik}=l_{ik}+\mathbf{n}-D, \\ n_{ik}=l_{ik}+j_{ik}-1}}^{l_{ik}+j_{sa}-i_l-l-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ n_{ik}=n+\mathbb{k}-j_{ik}+1}}^{n_{ik}+j_{ik}-j_{sa}^{ik}} \sum_{\substack{n_{ik}+j_{ik}-j_{sa}^{ik} \\ n_{sa}=n-j^{sa}+1}}$$

$$\frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_i - n_{sa})!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!}{(j_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=-l}^{(l_{ik}-i_l+1)} \sum_{\substack{j_{ik}=l_{ik}+\mathbf{n}-D}}^{l_{sa}-i_l+1} \sum_{\substack{n_{ik}+j_{ik}-j_{sa}^{ik}+2 \\ n_{sa}=n-j^{sa}+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ n_{ik}=n+\mathbb{k}-j_{ik}+1}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \sum_{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_s - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l}_s + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\begin{array}{c} l_s \\ l_s+j_{sa}-k \end{array}\right)} \sum_{(n_{is}=n+k+j_{sa}^{ik}-j_{ik})}^{l_s+j_{sa}-k} \sum_{(n_i-j_s+1)}^{D-s}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbf{k})}^{(n_i-j_s+1)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbf{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - \mathbf{n} - \mathbf{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D > \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbf{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}} \right. \\ \sum_{\substack{(l_{ik}-k+1) \\ (j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}} j_{sa}^{ik} = j_{ik} + j_{sa}^{ik} \\ \sum_{\substack{n_i=j_{ik}+1 \\ n_i=\mathbb{k} (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}+j_{ik}-n_{sa}-1)}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{ik})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa}^{ik})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!} \Big) + \\ \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{\substack{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1) \\ (j_{ik}=j_{sa}^{ik}+1)}} \sum_{\substack{l_{sa}-k+1 \\ j_{sa}=l_{sa}+n-D}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{n_{ik}+j_{ik}-n_{sa}-1 \\ n_{sa}=n-j_{sa}^{ik}+1}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

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$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - l_{sa})!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-j_{sa})}^{(l_{ik}-k+1)} \sum_{j_{sa}=l_{sa}+j_{sa}^{ik}+1}^{l_{sa}-k+1} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^{\infty} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-l_{ik}-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - j_{sa})!}{(j_{ik} + l_{sa} - l_{sa} - j^{sa} - \mathbf{l}_{ik} + 1) \cdot (j_{sa} + l_{sa} - l_{sa} - j_{sa})!}.$$

$$\frac{(l_{sa} + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{l}_{ik} - l_{ik} + 1}^{(j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - 1)} \sum_{j^{sa} = l_{sa} + \mathbf{n} - D}^{l_{ik} + j_{sa} - \mathbf{l}_{ik} + n - D} \sum_{i=l_{ik} - l_{sa} + 1}^{l_{ik} + j_{sa} - \mathbf{l}_{ik} + 1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_{ik} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l}_{ik} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\binom{l_{ik}-l+1}{l}} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)} \sum_{j^{sa}=l_{ik}+j_{sa}-l-j_{sa}^{ik}+2}^{l_{sa}-l+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{n} - l_{ik} - l_{sa} - k)!}{(l_{ik} - l_{sa} - l_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + \mathbf{n} - l_{ik} - s)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\left. \frac{+ i}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) -$$

$$\sum_{s=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{n_i=n+\mathbb{k} (n_{ik}=n+\mathbb{k}-j_{ik}+1)}^n \sum_{n_{sa}=n-j^{sa}+1}^{(n-j_{ik}+1)} \sum_{n_{ik}=n-k-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \sum_{j^{sa}=j_{sa}+1}^{i_{sa}-k+1} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=_l} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

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$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - \mathbf{n})!} - \\
& \sum_{k=1}^{l_{sa}-k+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j_{sa}=j_{sa}+1}^{l_{sa}-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{l_i} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{l_i} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.
\end{aligned}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i) \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}}^{n-k+1} = \sum_{k=1}^{i^{l-1}} \sum_{\substack{( ) \\ j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^l \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}} \sum_{j^{sa}=j_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(D + l_{sa} - l_{sa})!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - D)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(n_{ik}=j^{sa}+j_{sa}-l_{sa})}^{(n_{ik}-l_{sa}+1)} \sum_{(n_{sa}=l_{sa}-k+1)}^{(n_{sa}-D-s)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} - n_i - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \\
& D > \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq n^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge \\
& l_i \leq D + s - \mathbf{n} \wedge \\
& D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge
\end{aligned}$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!} +$$

$$\sum_{k=l}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_i+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}}^{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^s - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s) \cdot (n_{ik} + j_{sa} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa} - j_{ik} - \mathbb{k}) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D - s - \mathbf{n} - l_i) \cdot (\mathbf{n} + j_{sa} - j_{sa}^s - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\left(\right)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s) \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i) \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa} - \mathbb{k} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DO SD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{l}{k}} \sum_{(j_{sa}=j_{sa}+1)}^{l_{ik}+j_{ik}-k-j_{sa}^{ik}+1} \cdot \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}+1)}^{n_{ik}+j_{ik}-l-k} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-l-k} \cdot \\ \frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_i - n_{sa})!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} - j_{sa} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ \sum_{k=l}^{\binom{l}{k}} \sum_{(j_{ik}=j_{sa})}^{\binom{l}{k}} \sum_{j_{sa}=j_{sa}}^{j_{sa}^{ik}} \cdot \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \cdot \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{} \sum_{\substack{( ) \\ (j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s)}}^{} \frac{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}{n_i=\mathbf{n}+\mathbb{k}(n_{ls}+j_{sa}^{ik}-j_{sa}-j_{ik})} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}(n_{ls}+j_{sa}^{ik}-j_{sa}-j_{ik})}^n \sum_{\substack{( ) \\ (n_{ik}=n_i-l_{sa}-j_{sa}-\mathbb{k})}}^{} \frac{(n_{ik}+j_{sa}^{ik}-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-s-j_{sa})! \cdot (n_{ik}+j_{sa}^{ik}-j_{sa}-s)!} \cdot$$

$$\frac{(n_{ik}+j_{sa}^{ik}-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-s-j_{sa})! \cdot (n_{ik}+j_{sa}^{ik}-j_{sa}-s)!} \cdot$$

$$\frac{(n_{ik}+j_{sa}^{ik}-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{sa}^{ik}-j_{sa}-s)!} \cdot$$

$$\frac{(n_{ik}+j_{sa}^{ik}-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{sa}^{ik}-j_{sa}-s)!} \cdot$$

$$\frac{(n_{ik}+j_{sa}^{ik}-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{sa}^{ik}-j_{sa}-s)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s = D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa}^{ik} - j_{sa}$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\{j_{sa}^i, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_{sa} - j_{ik})!}{(l_{ik} + j_{ik} - \mathbf{n} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k)}^{(\mathbf{l}_{ik})} \sum_{j^{sa}=j_{sa}^k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-s)}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^{sa} + s - \mathbf{n} - l_i - 1)! \cdot (\mathbf{n} + j_{sa}^{sa} - j_{sa}^{sa} - s)!}$$

$$\sum_{k=0}^{\mathbb{k}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^s \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa}^{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^s \leq j_{sa}^{sa} \leq j_{sa} + j_{sa} - s \wedge$$

$$l_{il} + j_{sa} - 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} - l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D - \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^k)!}{(l_{ik} - j_{sa}^k - k + 1) \cdot (j_{ik} - j_{sa}^k - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(\mathbf{D} + j_{sa} - \mathbf{l}_{sa} - s) \cdot (\mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_{ik}=j_{sa}^k)}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(\mathbf{D} + j_{sa} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^s + s - \mathbf{n} - j_{sa}^{ik})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{sa}^s - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa}^s - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - l_{sa} \wedge l_{ik} - j_{sa}^{ik} - s > l_i \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s - s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^s - 1 \wedge j_{sa}^{ik} \leq j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^{ik}, \dots, j_{sa}^s, \dots, j_{sa}\} \wedge$$

$$s \geq j_{sa}^s \wedge s = s + \mathbb{k} \wedge$$

$$z \mapsto z^{-\alpha} \cdot \varphi(z)$$

$$f_z S_{j_{ik}, j_{sa}^s}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - k)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^n \sum_{\substack{(j_{ik}=j_{sa}^{ik}) \\ j^{sa}=j_{sa}-k}} \cdot$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_{ik}=n_i-j_{ik}+1) \\ n_{sa}=\mathbf{n}-j^{sa}+1}} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1) \\ (j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}} \cdot$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\substack{(\ ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}} \cdot$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + i - \mathbf{n} - 1))$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^i \leq j_{sa}^{ik} - 1$$

$$s: \{j_s^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \bullet 4 \wedge s = s \wedge \mathbb{k} \wedge$$

$$\mathbb{k}_{z^*} = 1 \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{i^{l-1}} \sum_{\substack{(j_{ik} = j_{sa}^{ik} + 1) \\ j^{sa} = j_{sa}^{ik} + 1}}^{(l_{ik} - k + 1)} \sum_{\substack{(n_i = n + \mathbb{k} - i_{ik} + 1) \\ n_{ik} = n + \mathbb{k} - j_{ik} + 1) \\ n_{sa} = n - j^{sa} + 1}}^{(n_i - l_{ik} - j^{sa} - \mathbb{k})} \frac{(n_i - l_{ik} - j^{sa} - \mathbb{k} - 1)!}{(j_{ik} - j_{sa}^{ik})! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_i - n_{sa} - 1)!}{(n_{sa} - j_{ik} - j^{sa})! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{\substack{( ) \\ (j_{ik} = j_{sa}^{ik})}}^{(n_i - j_{ik} + 1)} \sum_{\substack{( ) \\ (j^{sa} = l_{i+1} + n + j_{sa} - D - s)}}^{l_i + j_{sa} - l_{i+1} - s + 1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{ik} = n+\mathbb{k}-j_{ik}+1)}}^{(n_i - j_{ik} + 1)} \sum_{\substack{( ) \\ (n_{sa} = n-j^{sa}+1)}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_s+j_{sa}-n-\mathbf{l}_{sa}} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{\substack{( ) \\ (n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}} \sum_{\substack{( ) \\ (n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}} \sum_{\substack{( ) \\ (j_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)! \\ ((n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!) \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}}$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D - \mathbf{l}_i) < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq \mathbf{n} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} - j_{sa} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_{fz}S_j^{DQSD_{sa}} = & \sum_{k=1}^{i-1} \sum_{j_{sa}^{ik}=1}^{(l_i+n+\mathbb{k}-D-s)-j_{sa}^{ik}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{i+1}+j_{sa}-k-s+1} \\ & \sum_{n+\mathbb{k}}^{n_{ik}} \sum_{n_{ik}=j_{ik}+1}^{n-j_{ik}+1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ & \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_i+j_{sa}-k-s+1} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} + l_{sa} - j_{sa})!}.$$

$$\frac{(D + j^{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=s}^l \sum_{(j_{ik}=j_{sa}^{ik})}^{(\mathbf{l}_i - l_{ik} - l_{sa} + s + 1)} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-l_{ik}-s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-n-l_{sa}} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_s+1)} \\
 \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\
 \sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{(n_{sa}=n_{ik}+j_{sa}^{ik}-j^{sa}-\mathbb{k})} \\
 \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_s^s)!}{(n_{ik}+j_{ik}-n-\mathbb{k}-j_{sa}^s)!(n+j_{sa}^{ik}-j_{ik}-s)!} \cdot \\
 \frac{(l_s-k+1)!}{(l_s+j_{sa}^{ik}-l_{ik}-j_{sa}^{ik})!(l_{ik}-j_{sa}^{ik}-1)!} \cdot \\
 \frac{(D-s)!}{(D+j_{sa}^{sa}+s-n-\mathbb{k}-j_{sa})!(n+j_{sa}-j^{sa}-s)!}.$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge l_{sa} \wedge j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{sa} - n \leq l_{sa} \leq D + l_s + j_{sa} - n \wedge$$

$$D \geq n < n \wedge l_s - \mathbb{k} \geq 0 \wedge$$

$$j_{sa} - j_{sa}^{sa} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^{sa}\} \wedge$$

$$s \geq 1 \wedge s = s +$$

$$\mathbb{k}_z : z = 1$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{\substack{k=1 \\ j_{ik}=j_{sa}+1}}^{i^{l-1} - (\mathbf{l}_{sa}^{ik} - k)} \sum_{\substack{s=a+l_s+j_{sa}-k+1 \\ s=l_s+j_{sa}-k+1}}$$

$$\sum_{\substack{n_i=n+\mathbb{m} \\ n_i=n+\mathbb{m}-(\mathbf{l}_{ik}=n+\mathbb{k}-j_{ik}+1)}}^n \sum_{\substack{(n-i_{ik}+1) \\ n_{ik}=n-j^{sa}+1}}^{} \sum_{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\infty} \sum_{\substack{( ) \\ j_{ik}=j_{sa}^{ik}}}^{} \sum_{\substack{l_i+j_{sa}-i \\ j^{sa}=l_i+n+j_{sa}-D-s}}^{l_i+s-1}$$

**gündüz**

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - l_{ik} - s)!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - l_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_i - l_{sa} - s)!}{(\mathbf{l}_i - j^{sa} - \mathbf{n} - \mathbb{k} - l_{sa})! \cdot (\mathbf{n} - l_{sa} - j^{sa} - s)!} -$$

$$\sum_{i=1}^{+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+\mathbb{k}-j_{sa})}^{( )} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D = \mathbf{n} \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{\substack{(l_i + \mathbf{n} + j_{sa}^{ik} - D - s - 1) \\ (j_{ik} = j_{sa}^{ik} + 1)}}^{l_i - 1} \sum_{\substack{l_i + j_{sa} - k - s + 1 \\ j_{sa} = l_i + \mathbf{n} + j_{sa}^{ik} - D - s}}^{l_i + j_{sa} - k - s + 1} \\ \sum_{n_i = \mathbf{n} + \mathbb{k}}^{n} \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = n + \mathbb{k} - j_{ik} + 1)}}^{n_i - j_{ik} + 1} \sum_{\substack{n_{ik} + j_{ik} - j_{sa} - \mathbb{k} \\ j_{sa} + 1}}^{n_{ik} + j_{ik} - n_{sa} - j_{sa} + 1} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - i - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ \sum_{k=1}^{i-1} \sum_{\substack{(l_s + j_{sa}^{ik} - k) \\ (j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - s)}}^{l_i - 1} \sum_{\substack{l_i + j_{sa} - k - s + 1 \\ j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}}^{l_i + j_{sa} - k - s + 1} \\ \sum_{n_i = \mathbf{n} + \mathbb{k}}^{n} \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 1)}}^{n_i - j_{ik} + 1} \sum_{\substack{n_{ik} + j_{ik} - j_{sa} - \mathbb{k} \\ n_{sa} = \mathbf{n} - j_{sa} + 1}}^{n_{ik} + j_{ik} - n_{sa} - j_{sa} + 1} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

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$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - k + 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{k=1}^{\lfloor \frac{D-s}{2} \rfloor} \sum_{\substack{(n_i-j_{ik}) \\ (n_i-j_{sa})}} \sum_{\substack{j_{sa}=n-j^{sa}+1 \\ j^{sa}-D-s}}^{n_{sa}-\lfloor \frac{D-s}{2} \rfloor}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}) \\ (n_i-j_{ik}-j_{ik}+1)}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+n+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - \mathbb{k})!}.$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{l}_i + j_{sa}^{sa} - \mathbf{s} - s)!}.$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{L} > 0 \wedge$$

$$j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, j_{sa}\} \wedge$$

$$s \leq 4 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DO SD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - l_{sa} - l_{ik} - 1)! \cdot (j_{sa} + l_{ik} - l_{sa} - j_{sa})!}.$$

$$\frac{(s + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i^{l-1} - (l_{ik} - j_{sa}^{ik} - 1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{n_i} \sum_{(j_{ik}=j_{sa}^{ik})}^{\binom{\cdot}{\cdot}} \sum_{j^{sa}=j_{sa}}^{l_{sa}-i+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n - 1)!}{(n + j^{sa} - \mathbf{n} - l_{sa} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + s - \mathbf{n} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa} - s) \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{n_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\cdot}{\cdot}} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}}^{\binom{\cdot}{\cdot}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\cdot)} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1}^{l_s} \sum_{(j_{ik}=j_{sa}^{ik})}^{\binom{l_s}{2}} \sum_{j^{sa}=j_{sa}}^{\binom{l_s}{2}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\binom{n}{2}} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}}^{\binom{n}{2}} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s) \cdot (n - s)!} \cdot \frac{(D - l_i)}{(D + s - n - 1)! \cdot (n - s)!}$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} \leq 2 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^i, j_{sa}^{ik}, \mathbb{k}, j_{sa}^s, j_{sa}\} \wedge$$

$$s \geq 4 \wedge s > n + \mathbb{k} \wedge$$

$$n = j_{sa}^i - 1$$

$$f_z S_{j_{ik}, j^{sa}}^{DOOSD} = \sum_{k=1}^{l_s-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - \mathbf{l}_{ik})! \cdot (j_{sa} + l_{sa} - j_{sa})!}.$$

$$\frac{(D + j^{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{l}}^{\mathbf{n}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{l_{sa}-\mathbf{i} l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\begin{aligned}
 & \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k} \\
 & \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^k-1)}^{(n_i-j_s+1)} \\
 & \quad \sum_{n_{ik}=n_{is}+j_{sa}^k-j_{sa}^k}^{(n_{ik}+j_{sa}^k-s-\mathbb{k}-j_{sa}^s)} \frac{\binom{n_{ik}+j_{sa}^k-s-\mathbb{k}-j_{sa}^s}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^k-j_{ik}-s)!}}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^k-j_{ik}-s)!} \\
 & \quad \frac{(l_i-k-1)!}{(l_i+j_{sa}^k-j_{ik}-1) \cdot (j_{ik}-j_{sa}^k-1)!} \\
 & \quad \frac{(D-l_i)!}{(D+j_{sa}^k+s-\mathbf{n}-l_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} - \\
 & \quad \sum_{k=l}^n \sum_{(j_{ik}=j_{sa}^k)}^{\binom{n}{(n_{ik}=n_i-j_{ik}+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \quad \frac{(n_{ik}+j_{sa}^k-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}-s)!} \\
 & \quad \frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-s)!} \\
 & ((D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge \\
 & j_{sa}^k \leq j_{ik} - j^{sa} + j_{sa}^k - j_{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^k \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^k + 1 = l_s \wedge l_{sa} + j_{sa}^k - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
 & D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee \\
 & (D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
 & j_{sa}^k \leq j_{ik} \leq j^{sa} + j_{sa}^k - j_{sa} \wedge
 \end{aligned}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{i_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik} = j_{sa}+1)}^{\min(j_{sa}+l_{ik}-1, n-k)} \sum_{n_i=n+\mathbb{k}}^{n-(n_i-j_{ik}-1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik} = j_{sa}+1)}^{(l_{ik}-k+1)} \sum_{j_{sa}=\mathbf{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} + j_{ik} - l_{sa} - j_{sa})!}.$$

$$\frac{(s + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\underline{i}l}^{\underline{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{sa}-l_{ik}} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-l_{i}l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(\mathbf{D} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

gündüz

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\begin{aligned} & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\mathbb{k})}^{\Delta} \\ & \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^{s})!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^{s})!} \cdot \frac{(\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}{(l_s+k-1)!} \\ & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!(j_{ik}-j_{sa}^{ik}-1)!} \\ & \frac{(D-\mathbf{n})!}{(D+j^{sa}+s-\mathbf{n}-\mathbb{k}-j_{sa})! \cdots (l_s+j_{sa}-j^{sa}-s)!} \end{aligned}$$

$$\begin{aligned} & ((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}) \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\ & D + s - \mathbf{n} \wedge l_i \leq D + l_s + s - \mathbf{n} - 1) \wedge \end{aligned}$$

$$\begin{aligned} & ((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}) \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge \\ & D + j_{sa} - \mathbf{n} \wedge (l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge \\ & l_i + l_s + l_{sa} - \mathbf{n} \wedge I = \mathbb{k} \geq 0 \wedge \end{aligned}$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{K}_z : z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l_{ik}-1} \sum_{\substack{j_{ik}=j_{sa}+1 \\ (j_{ik}=j_{sa}+1)}}^{\min(l_{ik}, l_{sa}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_i-j_{ik}+1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik})!}{(l_{sa} - j_{sa} - l_{ik}) \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l_{ik}-1} \sum_{\substack{(l_{ik}-k+1) \\ (j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}}^{l_{ik}-k+1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_i-j_{ik}+1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\lfloor \frac{D-s-n-\mathbf{l}_i}{l_{ik}} \rfloor} \sum_{\substack{( ) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}}^{\lfloor \frac{(l_{ik}-k+1)}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \rfloor} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\lfloor \frac{(n_i-j_{ik}+1)}{n_{ik}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}} \rfloor} \sum_{n_{sa}=\mathbf{n}-\mathbb{k}}^{\lfloor \frac{(n_{sa}-l_{sa}+1)}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \rfloor}$$

$$\frac{(n_i - j_{ik} + 1)!}{(n_i - j_{ik} - 1)! \cdot (n_i - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{sa} - l_{sa} + 1)!}{(n_{sa} - j^{sa} - 1)! \cdot (n_{sa} - j^{sa} + 1)!} \cdot$$

$$\frac{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{\lfloor \frac{(l_{ik}-k+1)}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \rfloor} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{\lfloor \frac{(n_i-j_s+1)}{n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}} \rfloor}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\lfloor \frac{(n_i-j_s+1)}{n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}} \rfloor} \sum_{\substack{( ) \\ (n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik})}}^{\lfloor \frac{(l_{ik}-k+1)}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \rfloor}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{ik} \leq D + \mathbf{l}_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_{cz}S_{j_{ik}, j}^{D0} &= \sum_{i=1}^{l-1} \sum_{\substack{(n_{ik} = n + \mathbb{k} - j_{ik} + 1) \\ (n_{ik} = n + \mathbb{k} - j_{ik} + 1)}} \sum_{\substack{(n_{ik} - j_{ik} + 1) \\ (n_{ik} + j_{ik} - j^{sa} - \mathbb{k})}} \sum_{\substack{n_{sa} = n - j^{sa} + 1 \\ n_{sa} = n - j^{sa} + 1}} \\ &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\quad \frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\quad \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \end{aligned}$$

$$\sum_{k=1}^{\binom{l_{ik}-l}{l+1}} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(n_{sa} - l_{ik} - j_{sa}^{ik})!}{(l_{ik} - \mathbf{n}_{ik} - l_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + s - l_{sa} - k)!}{(D + s - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{n_s=\mathbf{n}+\mathbb{k}}^{s+l_s+j_{sa}-l_{sa}} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(n_i-j_{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{s+1})}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\binom{l_s}{l_s-k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}) > l_i+j_{sa}-D-s}} \sum_{n_i=n+\mathbb{k}}^{(n_i-j_{ik}+1)} \sum_{n_{ik}=n+\mathbb{k}-j_{ik}+1}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - n_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=l}^n \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_i+j_{sa}-\mathbf{l}-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}-j_{ik}+1}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} -$$

$$\sum_{\substack{i=1 \\ (j_{ik}=j^{ik}-j_{sa}^{ik}-j_{sa})}}^{D+l_s+s-n-\mathbf{l}_i} \sum_{\substack{( ) \\ (n_i=j_{sa}+j_{ik}-j_{sa})}}^{\mathbf{l}_s+j_{sa}-k} \sum_{\substack{( ) \\ (n_i=j_{sa}+j_{ik}-j^{sa}-\mathbb{k})}}^{n_i-D-s}$$

$$\sum_{\substack{i=n+\mathbb{k} \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{n_i-j_s+1} \sum_{\substack{( ) \\ (n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik})}}^{l_s+j_{sa}-k}$$

$$\frac{(\mathbf{l}_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(\mathbf{n}_i + j_{sa} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DO SD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_i+j_{sa}^{ik}-k-s+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k} (n_{ik}=n+\mathbb{k}-1+1)}^n \sum_{n_{sa}=n-j^{sa}}^{(n_i-j_{ik}+1) \quad n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_i+j_{sa}^{ik}-k-s+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k} (n_{ik}=n+\mathbb{k}-j_{ik}+1)}^n \sum_{n_{sa}=n-j^{sa}+1}^{(n_i-j_{ik}+1) \quad n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_i - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l}_i + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{j^{sa}=j_{sa}+j_{sa}-j_{sa}^{ik}}^{\mathbf{l}_s+j_{sa}^{ik}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+j_{sa}^{is}-j_{ik})}^{(n_i-\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}-n_{ik}}^{( )} \sum_{(n_{ik}-j_{sa}-s-\mathbb{k}-j_{sa}^s)}^{( )}$$

$$\frac{(n_{ik}-j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbf{l}_i-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}.$$

$$\frac{(-k-1)!}{(-j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

$$\frac{(\mathbf{D}-\mathbf{l}_i)!}{(D+j^{sa}+\mathbf{s}-\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - s) \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s) \wedge$$

$$l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} - 1 \leq l_s \wedge l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq \mathbf{n} + j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik} j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j^{sa}+j_{sa}-j_{sa})} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i=j_{ik}+1)}^{(n_i=j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=_il} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-i-l-j_{sa}^{ik}+1}$$

**g** **u** **d** **o** **u** **g** **i**

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - l_i \mathbf{l} - J_{sa})}{(\mathbf{l}_{ik} - j_{ik} - l_i \mathbf{l} + s) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_s - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - D - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-n-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-l_{sa})}^{( )} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{( )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{( )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{n=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}}^{(l_{sa}+j_{sa}^{ik}-\mathbf{n}-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa}+j_{sa}^{ik}-\mathbf{n}-j_{sa}+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l_{sa}+j_{sa}^{ik}-\mathbf{n}-j_{sa}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{sa}+j_{sa}^{ik}-\mathbf{n}-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (-j^{sa})!}$$

$$\frac{(l_{ik} - j_{ik} - i l + \dots) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik} - i l + \dots)!}.$$

$$\frac{(L-s) \cdot l_{sa} - s}{(L-j^{sa}-n-i_s)! \cdot (n-j^{sa}-a-s)!} =$$

$$\sum_{l=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n-k-a-D-s)}^{(l_s+j_{sa}^{ik}-)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{\substack{n_i=n+\mathbb{k} \\ n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \left( \dots \right) \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{1}_k}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D-n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$zS_{j_{ik}, j}^{D_s} = \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{i^{l-1}(\mathbf{l}_{ik} - j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = \mathbf{l}_{sa} + \mathbf{n} - D}^{l_s + j_{sa} - k} \sum_{n_i = \mathbf{n} + \mathbb{k}}^{(n_i - j_{ik} + 1)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 1)}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - n_{ik} - j_{ik})!}{(l_{ik} + j_{ik} - n_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j^{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j^{sa} - l_{sa} - s)!}{(D - j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^l \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-i_l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{} \sum_{\substack{l_s+j_{sa}-k \\ j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}}^{} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=\mathbf{n}+j_{sa}^{ik}-j_{ik})}}^{} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{ik}}^{\mathbf{n}} \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-\mathbb{k})}}^{} \sum_{n_{ik}+j_{ik}-\mathbf{n}-l_{sa}>n_{sa}+j_{sa}-j_{ik}-s}^{\mathbf{n}}$$

$$\frac{(n_{ik} + j_{ik} - s - \mathbb{k} - \mathbf{n} - l_{sa})!}{(n_{ik} + j_{ik} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{ik} - s)!} \cdot \frac{(n_i - k - 1)!}{(l_s + j_{sa} - j_{ik} - \mathbb{k} - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa}^{ik} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s,$$

$$l_s - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} < D + l_{ik} \wedge l_s - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + j_{sa} + s - \mathbf{n} - j_{sa} \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-j_{sa}^{ik}}^{l_{sa}-k+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{n_{ik}-j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_k - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_i - n_{ik} - 1)!}{(j^{sa} - 2)! \cdot (n_i - n_{ik} + j_{ik} - j^{sa} - 1)!} \cdot \\
 & \frac{(n_i - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(n_i - k - j_{sa}^{ik})!}{(l_{sa} + j_{sa} - i - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(l_{sa} + j_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
 & \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
 \end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{ik})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D+l_{sa}-n-l_i} \sum_{\substack{( ) \\ (j_{ik} = l_{sa} + n + j_{sa} - k)}}^{\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa}} j^{sa} = l_{sa} + n -$$

$$\sum_{n_i=1}^n \sum_{\substack{( ) \\ (n_i = n + j_{sa} - i_{ik} + 1)}}^{\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j^{sa} - \mathbf{k}} n_{sa} = n - j^{sa} + 1$$

$$\frac{(n_i - i_{ik} - 1)!}{(j_{ik} - i_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_i - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{\substack{( ) \\ (j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}}^{\mathbf{l}_{sa} + j_{sa}^{ik} - k} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{is} = n+\mathbb{k} + j_{sa}^{ik} - j_{ik})}}^{\mathbf{l}_{sa} + j_{sa}^{ik} - k} n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\infty} \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}^{\mathbf{l}_{sa} + j_{sa}^{ik} - k}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{sa} - j_{sa} + 1 > \mathbf{l}_s \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$

$(D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_{ik}+n-D)}^{l_{ik}-1} \sum_{j_{sa}=l_{ik}+n-D}^{j_{sa}+l_{sa}-k-j_{sa}^{ik}} \frac{\sum_{n_i=n+\mathbb{k}}^n \frac{(n_i-j_{ik}+1) \cdots n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}}{(n_{ik}=n+\mathbb{k}-j_{ik}+1) \cdots n_{sa}=n-j_{sa}+1} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2) \cdots n_{ik}-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}^{sa}-j_{ik}-1)! \cdots (n_{ik}+j_{ik}-n_{sa}-j_{sa}^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdots (n-j_{sa}^{sa})!} \cdot \frac{(l_{ik}-k-j_{sa}^{ik})!}{(l_{ik}-j_{ik}-k+1)! \cdots (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{sa}^{sa}-j_{sa}-l_{ik})! \cdots (j_{sa}^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdots (n+j_{sa}-j_{sa}^{sa}-s)!} + \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_{ik}+n-D)}^{l_{ik}-k+1} \sum_{j_{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{n_i-j_{ik}+1} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2) \cdots (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}^{sa}-j_{ik}-1)! \cdots (n_{ik}+j_{ik}-n_{sa}-j_{sa}^{sa})!} .$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1, l=j_{ik}=l_{ik}+1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{j^{sa}=l_{sa}+n-k}^{(\mathbf{l}_{ik}-\mathbf{l}_{ik+1})-l_{ik}+1}$$

$$\sum_{n_i=n-k, (n_{ik}=n+j_{ik}-1)}^{n} \sum_{n_{ik}-j^{sa}-\mathbb{k}}^{(n_i-j_{ik}-1)}$$

$$\frac{(n_i - j_{ik} - 1)!}{(j_{ik} - \mathbb{k})! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_i - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_{ik} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - \mathbf{l}_{ik} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^i} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k})} \frac{(n_{ik} + j_{sa}^i - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^i - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^i - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^i - \mathbb{k} - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^s + s - \mathbf{n} - l_i - j_{sa}^s)! \cdot (l_i + j_{sa}^s - \mathbf{n} - s)!}.$$

$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^i \leq j_{ik} \leq j_{sa}^s + j_{sa}^i - j_{sa}^s \wedge$

$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^i + 1 > l_s \wedge l_{sa} + j_{sa}^i - j_{sa} > l_{ik} \wedge$

$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^i \leq j_{ik} \leq j_{sa}^s + j_{sa}^i - j_{sa}^s \wedge$

$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{sa} - j_{sa}^i + 1 > l_s \wedge$

$D + j_{sa} - \mathbf{n} - l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$

$D + s - \mathbf{n} < l_i \leq l_s + l_{sa} + j_{sa} - j_{sa}^i - j_{sa} \wedge$

$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^i \leq j_{ik} \leq j_{sa}^s + j_{sa}^i - j_{sa}^s \wedge$

$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^i \leq j_{ik} \leq j_{sa}^s + j_{sa}^i - j_{sa}^s \wedge$

$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^i + 1 > l_s \wedge l_{sa} + j_{sa}^i - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{ik}+n-D)}^{l-1 (l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=l_{sa}-D}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - l_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa}^{ik} - l_{ik})! \cdot (j_{sa}^{ik} + j_{sa} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{l_{ik}-k+1} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - k)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{n} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa})!} +$$

$$\sum_{\substack{k=1 \\ i_l}}^{\mathbf{l}} \sum_{\substack{j_{ik}=l+1 \\ j_{ik}+n-D}}^{(l_{ik}-i_l+1)} \sum_{\substack{j_{sa}=n-j_{sa}+1 \\ j_{sa}-j_{ik}}}^{l_{sa}-i_l+1}$$

$$\sum_{n_i=n+\mathbf{k}}^n \sum_{\substack{(n_i-j_{ik}) \\ (n_i-j_{ik}-1)}}^{n_i-j_{ik}} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\begin{array}{c} \\ \end{array}\right)} \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)!\cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot$$

$$\frac{(l_s-l_i-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)!\cdot (j_{sa}^{ik}-j_{ik}-1)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_{sa}^s+s-\mathbf{n}-j_{sa}^s)!\cdot (\mathbf{n}+j_{sa}^{ik}-j_{sa}^s-s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \wedge l_{ik} - j_{sa}^{ik} - l_{sa} = l_i \wedge l_i - j_{sa} - s = l_t \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + j_{sa}^s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^s - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{sa}^s\} \wedge$$

$$s \geq j_{sa}^s \wedge s = s + \mathbb{k} \wedge$$

$$z_1 : z = \omega \rightarrow$$

$${}_{fz}S_{j_{ik},j_{sa}}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{\substack{i^{l-1} \\ (j_{ik} = l_{ik} + n - D) \\ n_i = n + \mathbb{k}}}^{\mathbf{l}_{ik} - (n_{ik} - k + 1)} \sum_{\substack{i^{l+1} \\ (j^{sa} = l_{ik} + n - D) \\ n_{sa} = n - j^{sa} + 1}}^{n_{sa} - k - s + 1} \sum_{\substack{n_{ik} + j_{ik} - j^{sa} - \mathbb{k} \\ n_{sa} = n - j^{sa} + 1}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=l}^{\mathbf{l}_{ik} - i^{l+1}} \sum_{(j_{ik} = l_{ik} + \mathbf{n} - D)}^{l_{ik} - i^{l+1}} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{l_i + j_{sa} - i^{l-s+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{i} \mathbf{l} - J_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{i} \mathbf{l} + s - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - \mathbf{i} \mathbf{l} - \mathbf{j}_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - l_{sa} - \mathbf{i} \mathbf{l} + s - 1) \cdot (j^{sa} + j_{ik}^{ik} - \mathbf{j}_{sa} - 1)!}.$$

$$\frac{(\mathbf{j}_{sa} - \mathbf{j}_{sa} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + \mathbf{j}_{sa} - j^{sa} - s)!} -$$

$$\sum_{n_{is}=\mathbf{n}+\mathbb{k}}^{D+l_s+j_{sa}-l_{sa}} \sum_{(n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{is}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_i+n-D)}^{l-1} \sum_{(n_i=n+\mathbb{k})}^{l-1} \sum_{(n_{ik}=l_i+n-\mathbb{k}-j_{ik}+1)}^{n_i-1} \sum_{(n_{sa}=n-j^{sa}+1)}^{n_i+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - n_{ik})! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{l_i+j_{sa}-k-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - l_{sa} - l_{ik} - j_{sa}) \cdot (j_{sa} + l_{sa} - \mathbf{l}_{ik} - j_{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa} - \mathbf{l}_{ik} - s)!}{(D + j^{sa} - \mathbf{n} - s - 1)! \cdot (\mathbf{n} - \mathbf{l}_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1 \cup (l_{ik} - \mathbf{l}_{ik} + \mathbf{n} - D)}^{\left(\mathbf{l}_{ik} - l_{ik} + 1\right)} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-\mathbf{l}_i l-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_i l - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l}_i l + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-n-l_{sa}} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{\left(l_s+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned} & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\ & \frac{\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(n_{sa}=n_{ik}+j_{sa}^s-j_{sa}^s-\mathbb{k}\right)}}{(n_{ik}+j_{ik}-n-\mathbb{k}-j_{sa}^s)!} \frac{\binom{n}{n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s}}{(n+j_{sa}^{ik}-j_{ik}-s)!} \\ & \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-s-1)!(j_{ik}+j_{sa}^{ik}-1)!} \\ & \frac{(D-n)!}{(D+j_{sa}^s+s-n-\mathbb{k}-j_{sa}^s)!\dots+(j_{sa}+j_{sa}^s-s)!} \end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - s - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq j_{sa} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge$$

$$D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i < j_{sa} + j_{sa}^s \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}^s, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s < s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: \mathbb{Z}^+ \rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DO SD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(l_s+j_{sa}-k\right)} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - j_{sa} - \mathbf{l}_{sa} - s)!}{(D - j^{sa} - \mathbf{n} - l_{sa} + 1) \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\left( \begin{array}{c} D + l_{ik} + j_{sa} - \mathbf{n} - l_{sa} - j_{sa}^{ik} + 1 \\ k - 1 \end{array} \right) \sum_{(j_{ik}=l_{sa}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-\mathbf{n}-1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n - 1 - \mathbb{k})!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(n - j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - n_{ik} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - n - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + \mathbb{k} - l_{ik} - j_{sa})!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j - l_{sa} - s)!}{(D - j_{sa} - \mathbb{k} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+2}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=\mathbf{l}_i+n+j_{sa}-D-s}^{\mathbf{l}_s+j_{sa}-k} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}-n_{ik}-j_{ik})}^{(n_i-1)+1} \\ \sum_{n_{ik}=n_i+j_{sa}^{ik}-j_{sa}-1}^{n_{ik}-n_{is}-j_{ik}} \sum_{(n_{ik}-j_{sa}^{ik}-s-\mathbb{k}-j_{sa})}^{\left(\right)} \\ \frac{(n_{ik}-j_{sa}^{ik}-s-\mathbb{k}-j_{sa})!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (n_{ik}+j_{sa}^{ik}-j_{ik}-s)!} \\ \frac{(-k-1)!}{(n_{ik}+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \\ \frac{(\mathbf{D}-\mathbf{l}_i)!}{(D+j^{sa}+\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > \mathbf{D} - \mathbf{n} + 1 \wedge \\ j_{ik}^{ik} + 1 \leq j_{ik} < j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge \\ j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq j_{ik} + j_{sa} - s \wedge \\ \mathbf{l}_{ik} - j_{sa} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n, \mathbb{k} = \mathbb{k} \geq 1 \wedge \\ j_{sa} - j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\ s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s - s + s = s + \mathbb{k} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \right)$$

$$\begin{aligned}
 & \sum_{\substack{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}) \\ n_i=n+\mathbb{k}}}^{\left(l_s+j_{sa}^{ik}-k\right)} \sum_{\substack{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\ n_{sa}=n-j^{sa}}} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{} \sum_{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}}}^{} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
 & \frac{(\mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - n_{ik} - 1)!}{(l_{ik} - j_{ik} - n_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + l_{sa} - l_{sa}^{ik} - s)!}{(D + l_{sa} - \mathbf{n} - l_{sa}) \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) + \\
 & \sum_{k=1}^{l_{ik}+j_{sa}^{ik}-l_{sa}-j_{sa}^{ik}} \sum_{\substack{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1) \\ (j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}}^{} \sum_{\substack{l_{sa}-k+1 \\ j^{sa}=l_{sa}+n-D}}^{} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{} \sum_{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1}}^{} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.
 \end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - \mathbf{n} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - n_{ik} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - \mathbb{k} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2} \sum_{(j_{ik}=l_s+\mathbf{n}+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - \mathbf{n} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)} \cdot$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+n+j_{sa}^{ik}-D+1) \wedge (j_{ik} \leq j_{sa}^{ik})}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{(n_i-j_s+1) \wedge (n_i-k+1) \wedge (n_i-k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1) \wedge (n_i-k+1) \wedge (n_i-k+j_{sa}^{ik}-j_{ik})}$$

$$\sum_{n_{ik}=n_i-j_{sa}^{ik}-j_{sa}^{ik}+1 \wedge n_{ik} \leq n_i-j_{sa}^{ik}-j_{sa}^{ik}}^{(n_i-j_s+1) \wedge (n_i-k+1) \wedge (n_i-k+j_{sa}^{ik}-j_{ik})} \sum_{n_{ik}+j_{sa}^{ik}-j_{ik}-k \leq n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - j_{ik} - \mathbb{k})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} - \mathbf{s} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} - 1) \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j_{ik}^{ik} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} + j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}} \right) \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik})}} \sum_{\substack{( ) \\ (j^{sa}=l_{sa}+n)}} \frac{\sum_{\substack{( ) \\ (n_i=n_{ik}-j_{ik}+1)}} \sum_{\substack{( ) \\ (n_{ik}=n-\mathbf{k}-j_{ik}+1)}} \sum_{\substack{( ) \\ (n_{sa}=n-j^{sa}+1)}}}{\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}} \cdot \frac{(n_{ik} - n_{sa} - \mathbf{k} - 1)!}{(j_{ik} - n_{ik} - \mathbf{k} + 1)! \cdot (n_{ik} - n_{sa} - j^{sa} - \mathbf{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{\substack{( ) \\ (j_{ik}=l_{ik}+\mathbf{n}-D)}} \sum_{\substack{( ) \\ (j^{sa}=l_{sa}+\mathbf{n}-D)}} \sum_{\substack{( ) \\ (n_i=\mathbf{n}+\mathbb{k})}} \sum_{\substack{( ) \\ (n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{( ) \\ (n_{sa}=\mathbf{n}-j^{sa}+1)}} \frac{\sum_{\substack{( ) \\ (n_i-j_{ik}+1)}} \sum_{\substack{( ) \\ (n_{ik}=n-\mathbf{k}-j_{ik}+1)}} \sum_{\substack{( ) \\ (n_{sa}=n-j^{sa}+1)}}}{\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}} \cdot \frac{(n_{ik} - n_{sa} - \mathbf{k} - 1)!}{(j_{ik} - n_{ik} - \mathbf{k} + 1)! \cdot (n_{ik} - n_{sa} - j^{sa} - \mathbf{k})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right)$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - l_{sa})!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \frac{(l_{ik} - k + 1)!}{(j_{ik} = l_{ik} - k - D)!} \frac{(l_{sa} - k + 1)!}{(j^{sa} = l_{sa} - k - D)!} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^{\infty} \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 1)}^{(n_i - j_{ik} - 1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})}{(\mathbf{l}_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - \mathbf{l}_{ik} - j_{sa})}{(j_{ik} + j_{sa} - j^{sa} - l_{ik}) \cdot (j^{sa} + l_{sa} - \mathbf{l}_{ik} - j_{sa})!}.$$

$$\frac{(D - j_{sa} - l_{sa} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{D+l_{sa}+j_{sa}^{ik}-l_i} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{n} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSS} = \sum_{k=1}^{D+l_{ik}-n-l_{sa}-j_{sa}^{ik}+1}$$

$$\sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{n_{ik}-k+1} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) +$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - j_{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{ik} - k - 1)!}{(l_{ik} + n_{ik} - j^{sa} - l_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + n_{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+2}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{ik}=n+\mathbb{k}-j_{ik}+1}^{n_{ik}-l_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - l_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - l_{ik} - n_{sa} - \mathbb{k} - 1)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} - k - j_{sa}^{ik})!}{(l_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{\left( \right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left( \right)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} & f_z S_{j_{ik}, j^{sa}}^{spec} \\ & \sum_{n_i=n+\mathbb{k}}^{\mathbf{l}_s+j_{sa}-k} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}. \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}. \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}. \\ & \frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}. \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-\mathbb{k})}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{\left(\begin{array}{c} \\ \end{array}\right)} \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_s^s)!}{(n_{ik}+j_{ik}-n-\mathbb{k}-j_{sa}^s)!(n+j_{sa}^{ik}-j_{ik}-s)!} \cdot \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-l_{ik}-1)!(j_{ik}+j_{sa}^{ik}-1)!} \cdot \frac{(D-1)!}{(D+j^{sa}+s-n-\mathbb{k}-j_{sa})!(n+j_{sa}-j^{sa}-s)!}}{.$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} \wedge j_{sa} - s > l_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} \wedge j_{sa}^s > j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^i, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}^s, \dots, j_{sa}^i\}$$

$$s \geq 5 \wedge s < s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \neq 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{i=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{\substack{(j_{ik}=l_i+j_{sa}^{ik}-D-s) \\ (j_{ik}=l_i+j_{sa}^{ik}-D-s)}}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{n_{ik}-j_{sa}^{ik}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D > n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{sa} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa} \leq j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j_{sa}}^{DOSSD} &= \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{n}{n}} \sum_{j_{sa}=l_i+n+j_{sa}-D}^{l_i+j_{sa}-k-s+1} \\
 &\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}, n_{sa}=n-\mathbb{k}, n_{sa}+1)}^{(n_i-j_{ik}+1) \quad n_{ik}-j_{ik}-\mathbb{k}} \\
 &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 &\quad \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_i + j_{ik} - n_{sa} - \mathbb{k} - 1)!} \cdot \\
 &\quad \frac{(\mathbb{k} - 1)!}{(n_{sa} - j_{sa} - \mathbb{k} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\
 &\quad \frac{(\mathbb{k} - k - j_{sa})!}{(n_{ik} - l_{ik} - \mathbb{k} + 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\
 &\quad \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} - \\
 &\quad \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{n}{n}} \sum_{j_{sa}=l_s+n+j_{sa}-D-j_{sa}^{ik}}^{l_s+j_{sa}-k} \\
 &\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 &\quad \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}}^{\binom{n}{n}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k})}^{(\mathbb{k})} \\
 &\quad \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa})!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
 &\quad \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
 \end{aligned}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOS} = \sum_{i=1}^{D-n+1} \sum_{\substack{j_{ik}=l_i+n-k-D-s \\ (j_{ik}-l_i-n+k-D-s)}}^{\substack{j_{ik}-k-s \\ (j_{ik}-l_i-n+k-D-s)}} \sum_{\substack{n_i=n+\mathbb{k} \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{\substack{i-k-s \\ (n_{ik}-j_{ik}+1)}} \sum_{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1}}^{\substack{n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\mathbf{l}_s+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}} \sum_{(j_{ik}=\mathbf{l}_{ik}+\mathbf{n}-D)}^{\mathbf{l}_{ik}+j_{sa}^{ik}-k} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\mathbf{l}_{ik}+j_{sa}^{ik}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{\left(\right)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^s + s - n - j_{sa}^s - i_1 - 1)! \cdot (n + j_{sa}^{ik} - j_{sa}^s - s)!}.$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq n + j_{sa}^s - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - l_{sa} - j_{sa}^s - l_{ik} \wedge l_i - j_{sa}^s - s = l_i \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, \dots, \dots, j_{sa}^i\} \wedge$$

$$s \neq 5 \wedge s = s - \mathbb{k} \wedge$$

$$\mathbb{k}_{z,s} = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j_{sa}^s}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(j_{sa}^s+j_{sa}^{ik}-j_{sa}^s)} \sum_{j_{sa}^s=l_i+n+j_{sa}^s-D-s}^{l_s+j_{sa}^s-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}^s+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa}^s - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^s - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - s)}^{(l_s + j_{sa}^{ik} - k)} \sum_{i_{sa} = l_s + j_{sa} - k + 1}^{l_{ik} - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=1}^n \sum_{(n_{ik} = n + j_{ik} + 1)}^{(n_i - 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - 1 - 1)!}{(j_{ik} - n_i + 1) \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - j_{ik} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (j_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = l_t + \mathbf{n} + j_{sa} - D - s}^{l_{ik} + j_{sa} - k - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^i-j_{sa}^k} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^i-\mathbb{k})} \\
& \frac{(n_{ik} + j_{sa}^i - s - \mathbb{k} - j_{sa}^i)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^i)! \cdot (\mathbf{n} + j_{sa}^i - j_{ik} - s)!} \cdot \\
& \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^i - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^i - \mathbb{s})!} \cdot \\
& \frac{(D - \mathbf{l}_i)!}{(D + j_{sa}^i + s - \mathbf{n} - \mathbf{l}_i - j_{sa}^i)! \cdot (\mathbf{l}_i + j_{sa}^i - j_{sa}^i - s)!} \cdot \\
& D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^i + 1 \leq j_{ik} \leq j_{sa}^i + j_{sa}^i - j_{sa}^i \wedge \\
& j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^i \leq \mathbf{n} + j_{sa} - s \wedge \\
& \mathbf{l}_{ik} - j_{sa}^i + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^i - j_{sa}^i > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa}^i - s = \mathbf{l}_{sa}^i \wedge \\
& D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \\
& j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i < j_{sa} - 1 \wedge j_{sa}^i < j_{sa}^i - 1 \wedge \\
& \mathbf{s}: \{j_{sa}^i, \dots, j_{sa}^i, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}\} \wedge \\
& s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge \\
& \mathbb{k}_z: z = 1 \Rightarrow \\
& S_j^{DO} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=\mathbf{l}_s+n+j_{sa}^i-D-s-1)}^{(l_i+n+j_{sa}^i-D-s-1)} \sum_{j_{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-k-s+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa}^i - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^i - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D-n+1} \sum_{\substack{(l_s+j_{sa}^{ik}-k) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}}^{\mathbf{l}_i+j_{sa}^{ik}-k-s+1} \sum_{\substack{(n_i-j_{ik}-1) \\ (n_{ik}+j_{ik}-\mathbf{k})}}^{n_{ik}+j_{ik}-\mathbf{k}-\mathbf{k}} \frac{(n_i-n_{ik})!}{(n_i-n_{ik}-j_{ik}+1)!}.$$

$$\frac{(n_{ik} - j_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+\mathbf{l}_s+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}} \sum_{\substack{(l_{ik}-k+1) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}}^{\mathbf{l}_{ik}-k+1} \sum_{\substack{(n_i-j_s+1) \\ (n_i=\mathbf{n}+\mathbb{k}) \quad (n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{n_{ik}-j_{sa}^{ik}} \frac{(\mathbf{l}_{sa} - j_{sa}^{ik})!}{(n_{sa} - n_{ik} - j_{ik} + j^{sa} - \mathbb{k})!}.$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\begin{array}{c} \mathbf{l}_{sa} \\ n_{sa} \end{array}\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\begin{array}{c} \mathbf{l}_{sa} \\ n_{sa} \end{array}\right)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j^{sa} \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, j_{sa}^1, \dots, j_{sa}^i\} \wedge$$

$$s \neq 5 \wedge s = 3 \wedge \mathbb{k} \wedge$$

$$\mathbb{k}_{z^s} = 1 \Rightarrow$$

$$fzS_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_{sa}+n-D}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - s)}^{(l_s + j_{sa}^{ik} - k)} \sum_{i_{sa} = l_s + j_{sa} - k + 1}^{l_{ik} - j_{sa}^{ik} - k}$$

$$\sum_{n_i=1}^n \sum_{(n_{ik} = n + j_{ik} + 1)}^{(n_i - 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{i_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - 1 - 1)!}{(j_{ik} - n_i + 1) \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - n_{ik} - 1) \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{l_{ik} + j_{sa} - k - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^i-j_{sa}^k} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^i-\mathbb{k})} \frac{(n_{ik} + j_{sa}^i - s - \mathbb{k} - j_{sa}^i)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^i)! \cdot (\mathbf{n} + j_{sa}^i - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^i - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^i - \mathbb{k} - s)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^i + s - \mathbf{n} - l_i - j_{sa}^i)! \cdot (l_i + j_{sa}^i - \mathbb{k} - s - s)!}.$$

$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^i + 1 \leq j_{ik} \leq j_{sa}^i + j_{sa}^i - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^i \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^i + 1 = l_s \wedge l_{sa} + j_{sa}^i - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$

$j_{sa}^i + 1 \leq j_{ik} \leq j_{sa}^i + j_{sa}^i - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^i \leq \mathbf{n} + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^i + 1 = l_s \wedge l_{sa} + j_{sa}^i - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$

$j_{sa}^i \leq j_{sa}^i - 1 \wedge j_{ik}^i < j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$

$s: \{j_{sa}^i, \dots, j_{sa}^i, \mathbb{k}, j_{sa}^s, \dots, j_{sa}^s\}$

$\geq 5 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 1 \Rightarrow$

$$f_z S_{j_{ik} j_{sa}}^{DOSD} = \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=l_s+n+j_{sa}^i-D-1)} \sum_{j_{sa}=l_{sa}+n-D}^{(l_{sa}+n+j_{sa}^i-D-j_{sa}-1)} \sum_{l_{sa}=k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - l_{sa})!} +$$

$$\sum_{k=1}^{D-\mathbf{n}+1} \sum_{\substack{(l_{sa} + j_{sa}^{ik} - k) \\ = l_{sa} + n + \mathbb{k} - \mathbb{j} - D - j_{sa}}}^l \sum_{\substack{l_{sa}-k+1 \\ j_{sa}-j_{sa}^{ik}}}^l$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}) \\ = n_i - \mathbb{k} - j_{ik} + 1}}^l \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{(l_{ik}-k+1) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}}^l \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{\left(\right)} \\
 & \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
 & \frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_{sa}^s + s - n - l_i - 1)! \cdot (n + j_{sa}^{ik} - j_{sa}^s - s)!}
 \end{aligned}$$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq n + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s - 1 \wedge l_i + j_{sa} - s > l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n - 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq n + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s - l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$

$(D \geq n < n \wedge l_s > D - n + 1 \wedge$

$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq n + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$

$n + j_{sa} - s \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$

$s \geq 5 \wedge s = s + \mathbb{k} \wedge$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSSD} = & \sum_{k=1}^{D-\mathbf{n}+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-k+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{sa} - n_{sa} - j^{sa} - \mathbb{k})!} \\
& \frac{(n_{sa} - \mathbb{k})!}{(n_{sa} - j^{sa} - \mathbb{k} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{sa}^{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa}) \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{D+l_{sa}-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{is}+1)} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$S_j^{DO} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\mathbf{l}_s+j_{sa}^{ik}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_i+\mathbb{k}-j_{ik})}^{(n_i+\mathbb{k}-1)}$$

$$\sum_{n_{ik}=n_i+j_{sa}^{ik}-j_{sa}-\mathbb{k}}^{n_i+\mathbb{k}-1} \sum_{(n_{ik}-j_{ik}-j_{sa}^{ik}-s-\mathbb{k})}^{(n_{ik}-j_{sa}^{ik}-s-\mathbb{k}-1)}$$

$$\frac{(n_{ik}-j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbf{l}_i-j_{sa}^s)! \cdot (n_{ik}+j_{sa}^{ik}-j_{ik}-s)!} \cdot$$

$$\frac{(-k-1)!}{(n_{ik}+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(\mathbf{D}-\mathbf{l}_i)!}{(D+j^{sa}+\mathbb{k}-n-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}.$$

$$(D \geq \mathbf{n} < n \wedge l_s < D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \wedge j^{sa} + j_{sa} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}} \\ \frac{(n_i-j_{ik}+1)!}{(j_{ik}-2) \cdot (n_i-n_{ik}-\mathbb{k}+1)!} \cdot \\ \frac{(n_{ik}-n_{sa}-\mathbb{k}+1)!}{(j^{sa}-j_{ik}-1) \cdot (n_{ik}+j_{ik}-n-j^{sa}-\mathbb{k})!} \cdot \\ \frac{(n_{sa}-n+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!}{(n_{sa}-n+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \\ \frac{(l_{ik}-k-j_{sa}^{ik})!}{(l_{ik}-j_{ik}-\mathbb{k}+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \\ \frac{(D+i-s-l_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-l_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} - \\ \sum_{\substack{D+l_s+s-\mathbf{n}-l_i \\ n_{ik}=n_{is}+j_{sa}^s-j_{sa}^i}}^{\left(\right)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k} \\ \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^i}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(n_i-j_s+1)} \\ \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \\ \frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \\ \frac{(D-l_i)!}{(D+j^{sa}+s-\mathbf{n}-l_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fzS_{j_{ik}, j^{sa}}^{DOS} = \sum_{k=1}^{D-j_{ik}-j_{sa}-1} \sum_{(j_{ik}=\mathbf{l}_{ik}+\mathbf{n}-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{(n_i-j_{ik}+1)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{\left(l_s+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(n_{sa}=n_{ik}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}\right)} \Delta^{\left(\begin{array}{c} n \\ n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s \end{array}\right)}$$

$$\frac{\left(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s\right)!}{\left(n_{ik}+j_{ik}-n-\mathbb{k}-j_{sa}^s\right)!\left(n+j_{sa}^{ik}-j_{ik}-s\right)!}.$$

$$\frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-s-1)!(j_{ik}+j_{sa}^{ik}-1)!}.$$

$$\frac{(D-d)!}{(D+j_{sa}^s+s-n-\mathbb{k}-j_{sa}^s)!\cdots(j_{ik}+j_{sa}^{ik}-s)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - s \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - s \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DO SD} = & \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{\left(j^{sa}+j_{sa}^{ik}-j_{sa}\right)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik})!}{(n_i - j_{ik} - s - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_i+j_{sa}-k-s+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{j}_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_{ik}+j_{sa}^{ik}-j_{ik})}^{(n_i-\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{ik}}^{(n_{is}-\mathbb{k}+1)} \sum_{(n_{ik}=n_{is}+j_{sa}^{ik}-j_{ik}-\mathbb{k})}^{(n_{ik}-\mathbb{k}-1)}$$

$$\frac{(n_{ik} - j_{sa}^{ik} - s - \mathbb{k} - j_{sa})!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa})! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(-k-1)!}{(j_{sa} + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(-k-1)!}{(D + j^{sa} + \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_i+j_{sa}-k-s+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - \mathbb{k} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(j_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - s + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(j_{ik} + j_{sa}^{ik} - l_{ik})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_i+j_{sa}-k-s+1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+\mathbf{l}_s+j_{sa}-\mathbf{n}-\mathbf{l}_{sa}} \sum_{\substack{(l_s+j_{sa}^{ik}-k) \\ (j_{ik}=\mathbf{l}_t+\mathbf{n}+j_{sa}^{ik}-D)}}^{\substack{(l_s+j_{sa}^{ik}-k) \\ (j^{sa}=j_{ik}+j_{sa}^{ik}-j_{sa})}} \sum_{\substack{(n_i-j_s) \\ (n_i=j_{ik}+j_{sa}^{ik}-j_{ik})}}^{\substack{(n_i-j_s) \\ (n_i=j_{ik}+j_{sa}^{ik}-j_{ik})}}$$

$$\sum_{\substack{n_{ik}=n_i-j_{sa}^{ik}-j_{sa}^{ik} \\ n_{ik}=n_i-j_{ik}-j_{sa}^{ik}}}^{\substack{n_{ik}=n_i-j_{sa}^{ik}-j_{sa}^{ik} \\ n_{ik}=n_i-j_{ik}-j_{sa}^{ik}}} \sum_{\substack{(n_{ik}+j_{sa}^{ik}-k)-\mathbb{k}-j_{sa}^s \\ (n_{ik}+j_{sa}^{ik}-k)-\mathbb{k}-j_{sa}^s}}^{\substack{(n_{ik}+j_{sa}^{ik}-k)-\mathbb{k}-j_{sa}^s \\ (n_{ik}+j_{sa}^{ik}-k)-\mathbb{k}-j_{sa}^s}} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - k - \mathbb{k} - j_{sa}^s)!}{(j_{ik} + j_{sa}^{ik} - k - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa}^{ik} - s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} + j_{sa}^{ik} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} + j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + j_{sa}^{ik} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fz^{\omega} j_{ik}^{SD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{(j^{sa}-j_{sa}^{ik}-j_{sa})} l_{ik} + j_{sa} - k - j_{sa}^{ik} + 1$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - s - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - s)!} \cdot$$

$$\frac{(l_{ik} - j_{ik} - l_{sa} + j_{sa})!}{(n_i - j_{ik} - s - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{l_i=l_s+s-\mathbb{k}-l_t}^{D+l_s+s-\mathbb{k}-l_t} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\right)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s)! \cdot (n + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$D \geq \mathbf{n} < n \wedge s = \mathbb{k} > 0$$

$$j_{sa} \leq j_{sa}^{i-1} \wedge j_{sa}^{i-1} \leq j_{sa}^{i-1} \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = \mathbb{k} \wedge$$

$$\mathbb{k}_{2,2} = 1$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D-n+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(j_{sa}-1)}$$

$$\sum_{n_i=n}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n-i_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^i} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^s + s - \mathbf{n} - j_{sa}^i - i_0)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{sa}^s - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^i \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa}^i - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} \leq l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq \mathbf{n} + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} \leq j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbf{n} \wedge s = s + \mathbb{k} \wedge$$

$$z: z = \omega \rightarrow$$

$$f_z S_{j_{ik}, j_{sa}^s}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - l_{sa})!} +$$

$$\sum_{k=1}^{\mathbb{k}-1} \sum_{\substack{(n_i - j_{ik}) \\ (j_{ik} = j_{sa} + 1)}}^{(l_s + j_{sa}^{ik} - k) \quad l_{sa} - k + 1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=_il}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{\infty} \sum_{j^{sa}=j_{sa}}^{l_{sa}-_il+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - l_{ik} - s)!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - s)!}.$$

$$\frac{(\mathbf{l}_{sa} + l_{sa} - s)!}{(\mathbf{l}_{sa} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\mathbf{l}_{sa}-s} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\mathbf{n}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\right)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=_l}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{\infty}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\left(\right)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{sa}}^{SD} = \sum_{k=1}^{n_i} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n_i+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{\binom{j_{ik}}{j_{sa}} = j_{sa}^{ik}}^{\binom{n}{n}} \sum_{j^{sa}=j_{sa}}^{l_{sa}-i+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - \mathbb{k} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} + 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - \mathbb{k} + n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - l_{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{i-1} \sum_{\binom{j_{ik}}{j_{sa}} = j_{sa}^{ik}+1}^{\binom{l_s+j_{sa}^{ik}-k}{l_s}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{s}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{\infty} \sum_{\binom{n_{sa}}{n_{ik}} = n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{\binom{l}{2}} \sum_{j^{sa}=j_{sa}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\binom{n}{2}} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}}^{n_{ik}+j_{ik}-j_{sa}^{sa}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - k - j_{sa}^s)!}{(n_{ik} + j_{ik} - n - k - j_{sa}^s) \cdot (n - s)!}$$

$$\frac{(D - l_i)!}{(D + s - k - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} - j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, k, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 5 \wedge s = s + k \wedge$$

$$k_z: z \bullet 1 \Rightarrow$$

$$\omega_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{l}{2}} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right.$$

$$\sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-k}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - k - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\begin{array}{c} \\ \end{array}\right)} \sum_{j^{sa}=j_{sa}}^{\left(\begin{array}{c} \\ \end{array}\right)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \Big) +$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=j_{sa}+2}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{\substack{j_{ik}=j_{sa}^{ik}+1 \\ j^{sa}=\mathbf{l}_{ik}+j_{sa}-k-j_{sa}+2}}^{l_{ik}-k+1} \sum_{l_{sa}=l_{ik}+j_{sa}-k-j_{sa}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_{ik}-j_{ik}+1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa} - k - j_{sa}^{ik})!}{(l_{ik} - j_{sa} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=l}^{\infty} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}} \sum_{l_{sa}=j_{sa}+1}^{l_{sa}-i_l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_{ik}-j_{ik}+1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{i-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{(j^{sa}=j_{sa}+1)}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n=\mathbf{n}+\mathbb{k}}^{\left(\right)} \sum_{(n_{ls}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s)} \\ \sum_{n_{ik}=n_i-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j_{sa}^{ik}} = n_{ik}+j_{ik}-j^{sa}-\mathbb{k})$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\left(\right)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{i_{ik}, j_{sa}}^{DOSD} = \frac{\left( \sum_{k=1, \dots, n_i=j_{sa}+j_{sa}^{ik}-1}^{i-1} \sum_{l=j_{sa}+1}^{l_s+j_{sa}-1} \right) \cdot (n_i - n_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} + 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=j_{sa}}^{( )}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\left( \sum_{k=1}^{l-1} \sum_{\substack{(j_{ik}=j_{sa}+k+1) \\ j^{sa}=j_{sa}}}^{l-1} \right) l_{sa} - n_{sa} - k$$

$$\sum_{\substack{n_i = n + \mathbb{k} \\ (n_{ik} = n + \mathbb{k} - j_{ik} + 1)}}^n \sum_{\substack{n_{sa} = n - j^{sa} + 1 \\ j_{ik} - j^{sa} - \mathbb{k}}}^{n_{ik} - r_{ik} - \mathbb{k} - 1}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - r_{ik} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}_{ik}} \sum_{\substack{( ) \\ (j_{ik} = j_{sa}^{ik})}}^{l+1} \sum_{j^{sa}=j_{sa}+1}^{l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n-i_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{n_{ik}} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}}^{l-1} \sum_{j^{sa}=j_{sa}+1}^{l_s + j_{sa} - k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^s + s - \mathbf{n} - l_i - 1)! \cdot (\mathbf{n} + j_{sa}^s - j_{sa}^s - s)!}$$

$$\sum_{k=0}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_{sa} \leq D + j_{sa}^s - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^s \leq j_{sa}^s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^s + 1 \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^s + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D \geq \mathbf{n} < r \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^s - j_{sa}^s - 1 \wedge j_{sa}^{ik} < j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \left( \sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{lk}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{ik} - \mathbb{k} - 1)!}{(l_{ik} - j_{ik} - \mathbb{k} - 1)! \cdot (j_{ik} - j_{sa}^{lk} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{lk})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \Big) +$$

$$\left( \sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{lk}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} - l_{sa} - j_{sa} - 1)!}.$$

$$\frac{(D + j^{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j_{sa} - j^{sa} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=-l}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{\infty} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-i_l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\begin{aligned}
 & \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k+1)}^{\infty} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k}^{(l_{ik}-k+1)} \\
 & \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^k-1)}^{(n_i-j_s+1)} \\
 & \quad \sum_{n_{ik}=n_{is}+j_{sa}^k-j_{sa}^k}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{sa}^k-j^{sa}-\mathbb{k})}^{\infty} \\
 & \quad \frac{(n_{ik} + j_{sa}^k - s - \mathbb{k} - j_{sa}^k)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^k)! \cdot (\mathbf{n} + j_{sa}^k - j_{ik} - s)!} \cdot \\
 & \quad \frac{(l_i - k - 1)!}{(l_i + j_{sa}^k - j_{ik} - 1)! \cdot (j_{ik} + j_{sa}^k - 1)!} \cdot \\
 & \quad \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
 & \quad \sum_{k=l}^{\infty} \sum_{(j_{ik}=j_{sa}^k)}^{\infty} \sum_{j^{sa}=j_{sa}}^{j_{sa}^k} \\
 & \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\infty} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{\infty} \\
 & \quad \frac{(n_{ik} + j_{sa}^k - s - \mathbb{k} - j_{sa}^k)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^k)! \cdot (\mathbf{n} - s)!} \cdot \\
 & \quad \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}
 \end{aligned}$$

$$\begin{aligned}
 & D \geq \mathbf{n} < n \wedge I = 1 \wedge D > \mathbf{n} + 1 \wedge \\
 & j_{sa}^i \leq j_{ik} \leq j^{sa} + j_{sa}^k - j_{sa} - 1 \wedge \\
 & j_{ik} + j_{sa} \geq j_{sa}^k + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^k + 1 = l_s \wedge l_{sa} + j_{sa}^k - j_{sa} > l_{ik} \wedge \\
 & l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge
 \end{aligned}$$

$$\begin{aligned}
 & D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge \\
 & j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^k < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^k - 1 \wedge
 \end{aligned}$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = & \left( \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}^{ik}-k)} \right. \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(j_{sa} - k - j_{sa}^{ik})!}{(l_{ik} - l_{sa} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
 & \sum_{k=l}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}^{(\ )} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) +
 \end{aligned}$$

**gündüz**

$$\left( \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{ik} - \mathbb{k} - 1)!}{(l_{ik} + j_{sa}^{ik} - l_{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}^{ik})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j^{sa} - l_{sa} - s)!}{(D - n_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{i=l}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\mathbf{ )}\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-i+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}^{ik})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{\left(l_s + j_{sa}^{ik} - k\right)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{is} - j_{sa}}^{n_i} \sum_{n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (l_s + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l)!}{(D + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^l \sum_{(j_{ik} = j_{sa}^{ik})}^{\left(l_s + j_{sa}^{ik} - k\right)} \sum_{j^{sa} = j_{sa}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = n_i - j_{ik} + 1)}^{\left(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s\right)} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < r \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-l_{sa}-j_{sa}^{ik}+1} \right) \cdot \frac{\left( \sum_{a=l_{sa}+\mathbf{n}-D}^{l_{ik}+j_{sa}-n_{sa}+1} \right)}{\left( \sum_{i=k}^{n_{sa}-j_{sa}} \right)} \cdot \frac{(n_{sa}-j_{sa})!}{(n_{sa}-j_{sa}+1)!} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \Big) +$$

$$\left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j_{sa}=l_{sa}+\mathbf{n}-D}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - l_{sa})!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \frac{(l_{ik} - k + 1)!}{(j_{ik} = j_{sa}^{ik} + 1) \cdot j^{sa} = l_{ik}} \cdot \frac{l_{sa} - k + 1}{j_{sa}^{ik} + 2} \\ \sum_{n_i=n+\mathbb{k}}^{\infty} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-l_{ik}-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l_{ik}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik})! \cdot (j_{sa} - l_{sa} - j_{ik} - j_{sa})!}.$$

$$\frac{(s + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\underline{l}}^{\underline{m}} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{sa}-l_{ik}} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-l_{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\frac{\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^n \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\mathbb{k})}^{(n_i-j_s+1)}}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)!} \cdot \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa})!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)!(n_{ik}+j_{sa}^{ik}-j_{ik}-s)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(D-\mathbf{n})!}{(D+j^{sa}+s-n-\mathbb{k}-j_{sa})! \cdots (n+j_{sa}-j^{sa}-s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq j_{ik} + j_{sa} - \mathbf{n} - j_{sa} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} \leq l_{sa} \leq \mathbf{n} + l_{ik} + j_{sa} - \mathbf{n} - j_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I - \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}^{ik+1}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbb{s} \wedge s = s + \mathbb{m} \wedge$$

$$\mathbb{k}_z: z = 1 \wedge$$

$${}_{fz}S_{j_{ik}j^{sa}}^{DOsD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \right.$$

$$\left. \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-k} \right)$$

**gündemi**

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_{sa} - l_{sa} - s)!}{(D - j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - l_{sa} - s)!} +$$

$$\left( \sum_{i=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-s-1} \sum_{j=j_{sa}^{ik}+1}^{(j^{sa}+j_{sa}-l_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_s+j_{sa}-k} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \mathbb{k} - 1)!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - n_{ik} - j_{ik})!}{(l_{ik} - j_{ik} - n_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + \mathbb{k} - l_{ik} - j_{sa})!}{(j_{ik} + \mathbb{k} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D - j_{sa} - \mathbb{k} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{l-1} \sum_{j^{sa}=l_{sa}+n-D}^{(l_s+j_{sa}^{ik}-k)} \sum_{l_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D-s-n-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\mathbf{l}}{\mathbf{l}}} \sum_{j^{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{\mathbf{l}_{sa}-\mathbf{i}\mathbf{l}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_{sa}+j_{ik}-1)}^{(n_i-j_{ik}+1)} \sum_{n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}}^{n_{ik}+j_{ik}-n_{sa}-j^{sa}+1} \\ \frac{(n_i - n_k - 1)!}{(n_i - 2)! \cdot (n_i - n_k - j_{ik} + 1)!} \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \\ \frac{(n_{sa} + 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D-s-n-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\mathbf{l}}{\mathbf{l}}} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l}_s+j_{sa}-k} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^s}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\binom{\mathbf{l}}{\mathbf{l}}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\mathcal{S}_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{D+l_{ik}+j_{sa}-n-\mathbf{l}_{sa}-j_{sa}^{ik}+1} \sum_{(l_{ik}-k+1)}_{(j_{ik}=\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n_i-j_{ik}+1} \sum_{n_{ik}=\mathbf{n}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{ik} - k - 1)!}{(l_{ik} + n - j^{sa} - l_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + n - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j^{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{sa}^{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\ \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=_i l}^{\left( \right)} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{sa}-i l+1} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-i l+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{D+\mathbf{l}_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+n+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_{ik}-k+1)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\infty} \sum_{(n_i=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-k)}$$

$$\sum_{n_{ik}=n+\mathbb{k}+j_{sa}^s-j_{sa}}^{n_{ik}+j_{sa}^s-j_{sa}} \sum_{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{+ j_{ik} - s - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j_{sa} - s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{sa} \leq j^{sa} + j_{sa}^i - j_{sa} - 1$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - \mathbb{k} + 1 = \mathbf{l}_s - \mathbf{s} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - s \leq \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$> \mathbf{n} - s \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \right.$$

$$\begin{aligned} & \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Big) + \\ & \sum_{k=1}^{D+l_{ik}+j_{sa}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\ & \sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}. \end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{l_{sa}=l_{sa}+n-D-k+1}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbf{k}+1}^n \sum_{(n_i-j_{ik}+1)}^{(n_i-j_{ik}-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbf{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbf{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\ \sum_{n_i=n+\mathbf{k}}^n \sum_{(n_{ik}=n+\mathbf{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - k + 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\infty} \sum_{\substack{(n_i-j_{ik}) \\ (j_{ik}=j_{sa})}}^{\mathbb{k}-j_{ik}+1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\infty} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{( )} \frac{(n_{ik} + j_{sa}^s - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - \mathbb{s})!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (l_i + j_{sa}^{ik} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} \wedge \dots \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\}$$

$$s \geq 5 \wedge s = s + \mathbb{m}$$

$$\mathbb{k}, z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{( )} \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{l-1} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\phantom{l}}{\phantom{l}}} \sum_{j^{sa}=j_{sa}}^{l_{sa}-\mathbf{l}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_k - 1)!}{(n_i - 2)! \cdot (n_i - n_k - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_s - \mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{\phantom{l}}{\phantom{l}}} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{s+1})} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{(n_i-j_{s+1})}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}}^{\binom{\phantom{l}}{\phantom{l}}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{\substack{( ) \\ j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{( ) \\ (n_{ik}=n_i-j_{ik}+1)}} \sum_{n_{sa}=n_{ik}-j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - \mathbb{j})!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - \mathbb{j} - \mathbb{s})! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbb{k} - l_i) \cdot (\mathbf{n} - s)}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \dots, j_{sa}^i, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k}$$

$$\mathbb{k}_z : z = \dots \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik}+1)}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_{ik} = j_{sa}^{ik})}^{(\mathbf{l}_s + j_{sa}^{ik} - \mathbf{l} - j_{sa} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(n_i-\mathbf{l}-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_i-j_{ik}-j^{sa}-\mathbb{k})}$$

$$\frac{(n_i - \mathbf{l} - 1)!}{(j_{ik} - j_{sa} + 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - \mathbf{l} - 1 - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (\mathbf{l}_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(\mathbf{l}_s + j_{sa}^{ik} - k)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\ )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\mathbb{k}} \sum_{\substack{(i_{ik}=j_{sa}^{ik}) \\ (i_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)}} \sum_{a=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(i_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s) \\ (i_{ik}+j_{sa}^{ik}-1) \\ (n_{sa}+j_{sa}+j_{ik}-j^{sa}-\mathbb{k})}} \sum_{a=j_{sa}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + s - \mathbb{k}) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 \geq l_s \wedge j_{ik} + j_{sa}^{ik} - j_{sa} \geq$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 \geq l_s \wedge$$

$$\leq D + s - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$\begin{aligned} {}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ & \frac{(n_{sa})}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - s + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{ik} + l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ & \sum_{k=1}^{i^{l-1}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}. \end{aligned}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{\substack{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{ik}) \\ (n_i=n+k)}}^{\left(\begin{array}{c} l_{ik}-i_l+j_{sa}-i_l+1 \\ j_{ik} \end{array}\right)} \sum_{j_{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_i=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{\left(\begin{array}{c} n_i-j_{ik}+1 \\ n_i-n_{ik} \end{array}\right)} \sum_{j_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j_{sa}}$$

$$\frac{(n_i - n_{ik})!}{(n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - j_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!}{(i_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{i_l-1} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}}^{\left(\begin{array}{c} l_s \\ j_{ik} \end{array}\right)} \sum_{j_{sa}=j_{sa}+1}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{sa}+1) \\ (n_i=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{\left(\begin{array}{c} n_i-j_{sa}+1 \\ n_i-n_{ik} \end{array}\right)} n_{sa}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}}^{\infty} \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}^{\left(\begin{array}{c} l_s \\ n_{sa} \end{array}\right)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \sum_{k=1}^{\mathbb{n}} \sum_{\substack{(i_{ik} = j_{sa}^{ik}) \\ i_{ik} \leq j_{sa}^{ik}}} \sum_{a=j_{sa}}^{\mathbb{k}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(i_{ik}+1) \\ i_{ik} + j_{sa}^{ik} \leq n_i}} \sum_{s=n_i - i_{ik} - j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(\mathbf{l}_i + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + s - \mathbb{k}) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 \geq l_s \wedge j_{ik} + j_{sa}^{ik} - j_{sa} \geq$$

$$l_i \leq D + s - \mathbf{n},$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 \geq l_s \wedge$$

$$\leq D - j_{sa} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{ik}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - n - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - \mathbb{k} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{ik} + l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^{l_{ik}-i^{l+1}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(n_i-j_{ik}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-i^{l+1}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - {}_i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - {}_i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{{}_i\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}, \dots, j_{ik}+j_{sa}^{ik}-j_{sa})}^{(\mathbf{l}_s+j_{sa}^{ik}-k)}$$

$$\sum_{n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_i-j_{sa}^{ik}-j_{sa}^{ik} \dots =n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_i - l_i)!}{(D + j^{sa} - s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k={}_i\mathbf{l}}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})}^{\infty} \sum_{j^{sa}=j_{sa}}^{\infty}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\infty} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(\mathbf{l}_i - l_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j_{sa}}^{DOSSD} = \left( \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n_i=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}+1} \right) \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n_i=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \cdot$$

$$\left( \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=j_{sa}+2}^{n-k-j_{sa}^{ik}+1} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(\mathbf{n}_{ik} - 1\mathbf{l} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - s)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{n_i} \sum_{\substack{(j^{sa} + j_{sa}^{ik} - s - 1) \\ (j_{ik} - j_{sa}^{ik})}}^{l_{ik} + j_{sa}} \sum_{j^{sa} = j_{sa} + 1}^{j_{sa} + 1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = n+\mathbb{k}-j_{ik}+1)}}^n \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - i_l - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(l_{ik}-i_l+1\right)} \sum_{l_{sa}=l_{ik}+j_{sa}-i_l-j_{sa}^{ik}+2}^{l_{sa}-i_l+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\left(n_i-j_{ik}+1\right)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \\
& \frac{(n_{ik} - n_{sa} - \mathbb{l} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - i_l - \mathbb{k})!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} - n - \mathbb{s})! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(n_{sa} - i_l - \mathbb{k})!}{(l_{ik} - n_{ik} - i_l - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(l_{sa} + \mathbb{n} - l_{ik} - s)!}{(j_{ik} + i_l - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \\
& \frac{+ i_s (l_{sa} - s)!}{(\mathbf{D} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) - \\
& \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}+j_{sa}-k} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{\left(n_i-j_{is}+1\right)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^i}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\right)} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - 
\end{aligned}$$

$$\sum_{k=1}^n \sum_{l \in \binom{j_{ik} = j_{sa}^{ik}}{j_{sa}}} \sum_{j_{sa} = j_{ik} + j_{ik} - j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa})!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa})! \cdot (n - s)!} \cdot \frac{(D - l_i)!}{(D + s - n - 1)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} - j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{i-1} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \right. \\ \left. \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \right. \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\ \left. \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa}^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k})!} \cdot \right. \\ \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \right)$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i}^{\mathbf{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\mathbf{l}_{ik}-i\mathbf{l}+1\right)} \sum_{j^{sa}=n+j_{sa}-j_{sa}^{ik}}^{\left(\mathbf{l}_{ik}-i\mathbf{l}+1\right)}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\left(n_i-j_{ik}+1\right)} \sum_{n_{sa}=n-j^{sa}+\mathbb{k}+1}^{\left(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}\right)}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l} - i\mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - i\mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \Biggr) +$$

$$\left( \sum_{k=1}^{i\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{\left(l_{ik}-k+1\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}-k+1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\left(n_i-j_{ik}+1\right)} \sum_{n_{sa}=n-j^{sa}+1}^{\left(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}\right)}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\mathbf{l}_{ik}-\mathbf{l}\right)} \sum_{l_{sa}=l+1}^{l_{sa}-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}+1)}^{(n_i-\mathbf{l}_{ik}-1)} \sum_{=n-j^{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{ik}}$$

$$\frac{(n_i - n_{ik})!}{(n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - \mathbf{l}_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbf{l}_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(j_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{\mathbf{l}-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \sum_{k=1}^{\mathbf{n}} \sum_{\substack{( ) \\ (i_{ik} = j_{sa}^{ik})}} \sum_{a=j_{sa}}^{\mathbf{n}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{( ) \\ (i_{ik}+1) \\ n_{sa} \leq i_{ik} + j_{ik} - j^{sa} - \mathbb{k}}} \sum_{a=j_{sa}}^{n_i}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(\mathbf{l}_i + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - \mathbf{l}_i + 1 > \mathbf{l}_s \wedge j_{ik} + j_{sa}^{ik} - j_{sa} >$$

$$D + j_{sa} - \mathbf{n} < j_{sa} \leq D + j_{sa} - \mathbf{n} + j_{sa}^{ik} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s < \mathbf{n} + \mathbb{k} \wedge$$

$$z \cdot z = 1$$

$${}_{fz}S_{j_{ik},j^{sa}}^{DO SD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \right)$$

$$\begin{aligned}
& \sum_{\substack{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}) \\ n_i=n+\mathbb{k}}}^{\left(\begin{array}{c} l_{ik}+j_{sa}-k-j_{sa}^{ik}+1 \\ j^{sa}=l_{sa}+n-D \end{array}\right)} \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{\left(\begin{array}{c} n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa} \end{array}\right)} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \mathbb{k} - 1)!} \cdot \\
& \frac{(\mathbf{n} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + \mathbf{n} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{\substack{(j_{ik}=j_{sa}^{ik}+1) \\ k=1}}^{\left(\begin{array}{c} n-l_{sa}-\mathbb{k}+1 \\ l_{ik}+j_{sa}-k-j_{sa}^{ik}+1 \end{array}\right)} \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{\left(\begin{array}{c} n_{ik}+j_{ik}-j^{sa}-\mathbb{k} \\ n_{sa}=n-j^{sa}+1 \end{array}\right)} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
& \frac{(\mathbf{n}_{sa} - 1)!}{(\mathbf{n}_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.
\end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - \mathbf{n} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!}.$$

$$\frac{(l_{ik} - l_{sa} - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - \mathbb{k} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - \mathbb{k})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=-l}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{\substack{j_{ik} = l_{ik} + n - D, \\ n_{ik} = n - l_{ik} - k}}^{l_{ik} + j_{sa} - i_l - l - j_{sa}^{ik} + 1} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbf{k}}$$

$$\sum_{n_i=n+\mathbf{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ n_{ik}=n+\mathbf{k}-j_{ik}+1}}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} + j_{sa} - \mathbf{k} - 1)!}{(j^{sa} - n_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbf{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!$$

$$\cdot (j_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)! \cdot$$

$$(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!$$

$$\cdot (j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})! \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=-l}^{(l_{ik} - i_l + 1)} \sum_{\substack{j_{ik} = l_{ik} + n - D \\ n_{ik} = n + \mathbf{k} - j_{ik} + 1}} j_{sa} = l_{ik} + j_{sa} - i_l - j_{sa}^{ik} + 2 \sum_{n_{sa} = n - j^{sa} + 1}^{l_{sa} - i_l + 1}$$

$$\sum_{n_i=n+\mathbf{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ n_{ik} = n + \mathbf{k} - j_{ik} + 1}}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbf{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - \mathbf{l} + 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s - \mathbb{k} - j_{sa}^s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - s - \mathbb{k} - j_{sa}^s)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\mathbf{l}_{ik})} \sum_{(j^{sa})}^{l_s+j_{sa}-k} \sum_{(n_i=j_{sa}^{ik}-j_{sa})}^{D-s}$$

$$\sum_{=n+\mathbb{k}}^{n} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{(\mathbf{l}_s)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\mathbf{l}_s-k-1)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D > \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} + 1 \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}} \right. \\ \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n_i-j_{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_i+k+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n - \mathbb{k} - 1)!}{(j_{ik} - j_{ik} - k + 1)! \cdot (n_i + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) + \\ \left( \sum_{k=1}^{D+l_{ik}+j_{sa}-n-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \right. \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} .$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - l_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - l_{sa})!} +$$

$$\sum_{k=1}^{D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+1} \sum_{(j_{ik}=j_{sa}+n+j_{sa}^{ik}-j_{sa})}^{(l_{ik}-k+1)} \sum_{j_{sa}=j_{sa}^{ik}+1}^{l_{sa}-k+1} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^{\infty} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-l_{sa})} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=D+l_{ik}+j_{sa}-\mathbf{n}-l_{sa}-j_{sa}^{ik}+2}^{l^{i-1}} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - l_{sa} - l_{ik} - (j_{sa}^{ik} - j_{sa}) - j_{sa})!}.$$

$$\frac{(l_{sa} + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{l}_{ik} - j_{sa}^{ik} - l_{sa} - l_{ik} + n - D}^{(j^{sa} + j_{sa}^{ik} - l_{sa} - 1)} \sum_{j^{sa}=l_{sa} + \mathbf{n} - D}^{l_{ik} + j_{sa} - \mathbf{l}_{ik} - j_{sa}^{ik} + 1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\binom{l_{ik}-l+1}{l}} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)} \sum_{j^{sa}=l_{ik}+j_{sa}-l-j_{sa}^{ik}+2}^{l_{sa}-l+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{n} - l_{ik} - l_{sa} - k)!}{(l_{ik} + l_{sa} - l_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + \mathbf{n} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\left. \frac{+ i}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) -$$

$$\sum_{s=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i^{l-1}} \sum_{n_i=n+\mathbb{k} (n_{ik}=n+\mathbb{k}-j_{ik}+1)}^n \sum_{n_{sa}=n-j^{sa}+1}^{(n-j_{ik}+1)} \sum_{j^{sa}=j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^l \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - D)!} -$$

$$\sum_{k=1}^{(\ )} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{l_{sa}-k+1} \sum_{n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(\ )}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{n_{ik}-n_{is}+j_{sa}^{is}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=\underset{i}{l}}^{\underset{i}{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\ )} \sum_{j^{sa}=j_{sa}}^{(\ )}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{(\ )} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i) \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}}^{n-\mathbf{l}_i+D} = \sum_{k=1}^{i^{l-1}} \sum_{\substack{( ) \\ j_{sa} = j^{sa} + j_{sa}^{ik} - j_{sa}}} \sum_{j^{sa} = j_{sa} + 1}^{l_{sa}-k+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^l \sum_{\substack{( ) \\ (j_{ik} = j_{sa}^{ik})}} \sum_{j^{sa} = j_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(D + l_{sa} - l_{sa})!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - D)!} - \\
& \sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(n_{ik}=j^{sa}+j_{sa}-l_{sa})}^{(n_{ik}-l_{sa}+1)} \sum_{(n_{sa}=l_{sa}-k+1)}^{(n_{sa}-D-s)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} - n_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \\
& D > \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq n^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge \\
& l_i \leq D + s - \mathbf{n} \wedge \\
& D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge
\end{aligned}$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{ik} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa}^{ik})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!} +$$

$$\sum_{k=_l}^{\left(\right)} \sum_{(j_{ik}=j_{sa})}^{\left(\right)} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{ik} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa}^{ik})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_i+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}}^{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^s - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s) \cdot (n_{ik} + j_{sa} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa} - j_{ik} - \mathbb{k}) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D - s - \mathbf{n} - l_i) \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\left(\right)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s) \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i) \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa} - \mathbb{k} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DO SD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{l}{k}} \sum_{(j_{sa}=j_{sa}^{ik}+1)}^{l_{ik}+j_{ik}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}+1)}^{n_{ik}+j_{ik}-l-k} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-l-k} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} - j^{sa} - \mathbb{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=l}^{\binom{l}{k}} \sum_{(j_{ik}=j_{sa})}^{\binom{l}{k}} \sum_{j_{sa}=j_{sa}}^{j_{sa}^{ik}} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{} \sum_{\substack{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1 \\ j^{sa}=l_i+\mathbf{n}+j_{sa}-D-1}}^{} \frac{\sum_{\substack{n \\ n_i=\mathbf{n}+\mathbb{k} \\ (n_{ts}-\mathbf{n}+j_{sa}-j_{ik})}}^{} \sum_{\substack{( ) \\ (n_{ik}=n_{ts}-l_{sa}-j_{sa}-\mathbb{k}) \\ (n_{sa}=n_{ts}-l_{ik}-j^{sa}-\mathbb{k})}}^{} \frac{(n_{ts}+j_{sa}^{ik}-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa})! \cdot (n_{ts}+j_{sa}^{ik}-j_{ik}-s)!} \cdot \frac{(n_{ts}+j_{sa}^{ik}-\mathbb{k}-1)!}{(n_{ts}+j_{sa}^{ik}-j_{ik}-\mathbb{k})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(l_i)!}{(D+j^{sa}+\mathbb{k}-\mathbf{n}-l_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}}{}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\{j_{sa}^i, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n_{ik} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k + 1)!}{(l_{ik} + j_{ik} - n_{sa} - 1)! \cdot (j_{ik} - j_{sa}^k - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k)}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(\mathbf{n}_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^s + s - \mathbf{n} - l_i - 1)! \cdot (\mathbf{n} + j_{sa}^s - j_{sa}^{ik} - s)!}$$

$$\sum_{k=0}^{\infty} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}+1)}^{(\ )} n_{sa}=n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} - s)!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^s \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^s \leq j_{sa}^s \leq j_{sa}^s + j_{sa} - s \wedge$$

$$l_{i+1} - l_{sa} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^s = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} - l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$D < n \wedge n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$${}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - k - j_{sa}^k)!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^k - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{l}}^{(\mathbf{l})} \sum_{(j_{ik}=j_{sa}^k)}^{(\ )} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s)}^{\left(\begin{array}{c} \\ \end{array}\right)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - l_i - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{sa}^{ik} - l_i - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^s + s - \mathbf{n} - j_{sa}^s - i_0)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{sa}^s - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa}^s \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa}^s - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - l_{sa} \wedge l_{ik} - j_{sa}^{ik} - s > l_i \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s - s - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^s - 1 \wedge j_{sa}^{ik} \leq j_{sa}^s - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^s\} \wedge$$

$$s \geq 1 \wedge s = s + \mathbb{k} \wedge$$

$$z: z = \omega \rightarrow$$

$$f_z S_{j_{ik}, j_{sa}^s}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - \mathbb{k})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^n \sum_{\substack{(j_{ik}=j_{sa}^{ik}) \\ j^{sa}=\mathbb{k}}} \sum_{\substack{(n_i=n+\mathbb{k}) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_{ik}=n+\mathbb{k}-j_{ik}+1) \\ (n_{sa}=n+\mathbb{k}-j^{sa}+1)}} \sum_{\substack{(j^{sa}=j_{ik}-j_{sa}^{ik}-\mathbb{k}) \\ (j^{sa}=j_{ik}-j_{sa}^{ik}-\mathbb{k}+1)}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - \mathbb{k})! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - \mathbb{k} + 1)! \cdot (n_{sa} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{\substack{(l_{sa}+j_{sa}^{ik}-k-j_{sa}+1) \\ (j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}} \sum_{\substack{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{\substack{(\ ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + i - \mathbf{n} - (n - 1))$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^i \leq j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_s^s, \dots, j_{sa}^{ik}, \dots, \mathbb{j}_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s = 5 \wedge s = s \wedge \mathbb{k} \wedge$$

$$\mathbb{k}_{z^*} = 1 \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{i^{l-1}} \sum_{\substack{(j_{ik} = j_{sa}^{ik} + 1) \\ j^{sa} = j_{sa}^{ik} + k - j_{sa}^{ik} + 1}}^{(l_{ik} - k + 1)} \sum_{\substack{(n_i = n + \mathbb{k} - i_{ik} + 1) \\ n_{ik} = n + \mathbb{k} - i_{ik} + 1}}^{(n_l - l + 1)} \sum_{\substack{(n_{sa} = n - j^{sa} + 1) \\ n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}}}^{(l_{ik} - j^{sa} - \mathbb{k})}$$

$$\frac{(n_i - \mathbb{k} - 1)!}{(j_{ik} - \mathbb{k} + 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - \mathbb{k} - 1 - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{\substack{( ) \\ (j_{ik} = j_{sa}^{ik})}}^{( )} \sum_{\substack{l_i + j_{sa} - l - s + 1 \\ j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} = n + \mathbb{k} - j_{ik} + 1)}}^{(n_i - j_{ik} + 1)} \sum_{\substack{n_{ik} + j_{ik} - j^{sa} - \mathbb{k} \\ n_{sa} = n - j^{sa} + 1}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - \mathbf{j}_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (\mathbf{j}^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+j_{sa}-n-\mathbf{l}_{sa}} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}}^{\substack{( ) \\ (n_i-j_s+1)}} \sum_{\substack{+j_{sa}-k-j_{sa}^{ik}+1 \\ \vdots \\ +D-s}}^{\substack{+j_{sa}-k-j_{sa}^{ik}+1 \\ \vdots \\ +D-s}} \sum_{\substack{( ) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{\substack{( ) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{sa}^{ik} - s - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D - \mathbf{l}_i) < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq \mathbf{n} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_j^{DQSD_{sa}} = \sum_{k=1}^{i-1} \sum_{j_{sa}^{ik}=1}^{(l_i+n+\mathbb{k}-D-s)-j_{sa}^{ik}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_i+n-k-s+1} \\ \sum_{n+\mathbb{k}}^{n_i} \sum_{n_{ik}=n-\mathbb{k}-j_{ik}+1}^{n-j_{ik}+1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_i+j_{sa}-k-s+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} - l_{ik} - j_{sa})!}.$$

$$\frac{(D + j^{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j_{sa} - j^{sa} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=s}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(\mathbf{l}_i + j_{sa} - l_{ik} - s + 1)} \sum_{j^{sa}=\mathbf{l}_i + \mathbf{n} + j_{sa} - D - s}^{l_i + j_{sa} - l_{ik} - s + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\begin{aligned}
& \sum_{k=1}^{D+l_s+j_{sa}-n-l_{sa}} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\
& \quad \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}} \frac{( )}{(n_{sa}=n_{ik}+j_{sa}^{ik}-j^{sa}-\mathbb{k})} \\
& \quad \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_s^s)!}{(n_{ik}+j_{ik}-n-\mathbb{k}-j_{sa}^s)!(n+j_{sa}^{ik}-j_{ik}-s)!} \\
& \quad \frac{(l_s-k+1)!}{(l_s+j_{sa}^{ik}-l_{ik}-s+1)!(l_{ik}-j_{sa}^{ik}-1)!} \\
& \quad \frac{(D-s)!}{(D+j_{sa}^{sa}+s-n-\mathbb{k}-j_{sa})!(n+j_{sa}-j^{sa}-s)!}.
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + \mathbb{k} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge l_{sa} \wedge j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{sa} - n \leq l_{sa} \leq D + l_s + j_{sa} - n \wedge$$

$$D \geq n < n \wedge l_s - \mathbb{k} > 0 \wedge$$

$$j_{sa} - j_{sa}^{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbb{s} \wedge s = s +$$

$$\mathbb{K}_z : z = 1$$

$$f_z S_{j_{ik}, j^{sa}}^{DOSD} = \sum_{k=1}^{i_l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}
\end{aligned}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{ik})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{\substack{k=1 \\ k=j_{ik}-j_{sa}+1}}^{\mathbf{i}^{l-1} - (\mathbf{l}_{sa}^{ik} - k)} \sum_{\substack{s=a \\ s=l_s + j_{sa} - k + 1}}^{l_i + j_{sa} - s + 1}$$

$$\sum_{\substack{n_i=n+\mathbb{k} \\ n_i=n+\mathbb{k}-(\mathbf{l}_{ik}=n+\mathbb{k}-j_{ik}+1)}}^n \sum_{\substack{(n-i_{ik}+1) \\ n_{ik}=n-j^{sa}+1}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \sum_{\substack{n_{sa}=n-j^{sa}+1}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\infty} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{\mathbf{i}} \sum_{\substack{l_i+j_{sa}-i \\ j^{sa}=l_i+n+j_{sa}-D-s}}^{l_i+j_{sa}-i l-s+1}$$

**gündüz**

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - l_{ik} - s)!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - s)!} \cdot$$

$$\frac{(\mathbf{l}_i - l_{sa} - s)!}{(\mathbf{l}_i + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - l_{sa} - j^{sa} - s)!} -$$

$$\sum_{i=1}^{+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+\mathbb{k}-j_{sa})}^{(\ )} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D = n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{\substack{(j_{ik}=j_{sa}^{ik}+1) \\ (j_{sa}=l_i+n+j_{sa}-s)}}^{\substack{(l_i+n+j_{sa}^{ik}-D-s-1) \\ (l_i+j_{sa}-k-s+1)}} \frac{\sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{\substack{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}) \\ (n_{sa}+1)}}}{\frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!}} \\ & \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(n_{sa}-j_{sa}-1)! \cdot (n_i+n_{ik}-n_{sa}-j_{sa}-\mathbb{k})!} \\ & \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \\ & \cdot \frac{(\mathbf{l}_{ik}-k-j_{sa}^{ik})!}{(\mathbf{l}_{ik}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \\ & \cdot \frac{(\mathbf{l}_{sa}+j_{sa}^{ik}-\mathbf{l}_{ik}-j_{sa})!}{(\mathbf{l}_{ik}+\mathbf{l}_{sa}-j_{sa}-\mathbf{l}_{ik})! \cdot (j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \\ & \cdot \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} + \\ & \sum_{k=1}^{l-1} \sum_{\substack{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s) \\ (j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}}^{\substack{(l_s+j_{sa}^{ik}-k) \\ (l_i+j_{sa}-k-s+1)}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}}^{\substack{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}) \\ (n_{sa}=n-j_{sa}+1)}} \\ & \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!}. \end{aligned}$$

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$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - k + 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\infty} \sum_{\substack{(n_i-j_{ik}) \\ (n_i-j_{ik}-\mathbb{k}-j_{ik}+1)}}^{\infty} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \sum_{\substack{(n_i) \\ (k=j_{ik}-j_{sa})}}^{\infty} \frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+n+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(\mathbf{l}_s+j_{sa}^{ik}-k)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\infty} \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{\infty}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k})}^{(\ )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - \mathbb{k})!}.$$

$$\frac{(\mathbf{D} - \mathbf{l}_i)!}{(\mathbf{D} + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{l}_i + j_{sa}^{sa} - \mathbf{s} - s)!}.$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{L} = 0 \wedge$$

$$j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}, j_{sa}^{ik}, \dots, j_{sa}^i\} \wedge$$

$$s \leq S \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1$$

$${}_{fz}S_{j_{ik},j^{sa}}^{DO SD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

**gündem**

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - l_{sa} - l_{ik} - j_{sa}^{sa} - l_{ik}^{ik} - 1)! \cdot (j_{sa} + l_{sa} - l_{ik} - j_{sa}^{sa} - 1)!} \cdot$$

$$\frac{(s + j_{sa} - \mathbf{n} - s)!}{(D + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{i^{l-1} - (l_{ik} - k + 1)} \sum_{j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^l \sum_{j^{sa}=j_{sa}}^{l_{sa}-i+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - i - \mathbb{k})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j_{sa} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + s - \mathbf{n} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{( )} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{( )}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{\binom{n}{2}} \sum_{j^{sa}=j_{sa}}^{\binom{n}{2}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}+1)}^{\binom{n}{2}} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}}^{\binom{n}{2}} \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - n - \mathbb{k} - j_{sa}^s) \cdot (n - s)} \cdot \frac{(D - l_i)}{(D + s - n - 1)! \cdot (n - s)!}$$

$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$l_i \leq D + s - n) \vee$

$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$l_i \leq D + s - n) \wedge$

$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} \leq j_{sa}^{i-1} \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^{i-1}, j_{sa}^{ik}, \dots, j_{sa}^i, j_{sa}, \dots, j_{sa}^i\} \wedge$

$s \geq 5 \wedge s > n + \mathbb{k} \wedge$

$$f_z S_{j_{ik}, j^{sa}}^{DOOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - \mathbf{l}_{ik})! \cdot (j_{sa} + l_{sa} - \mathbf{l}_{ik} - j_{sa})!}.$$

$$\frac{(D + j^{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=\mathbf{l}}^{\mathbf{n}} \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\right)} \sum_{j^{sa}=j_{sa}}^{l_{sa}-\mathbf{l}_{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\begin{aligned}
 & \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^k+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^k} \\
 & \quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^k-1)}^{(n_i-j_s+1)} \\
 & \quad \sum_{n_{ik}=n_{is}+j_{sa}^k-j_{sa}^k}^{(n_{ik}+j_{sa}^k-s-\mathbb{k}-j_{sa}^s)} \frac{\binom{n_{ik}+j_{sa}^k-s-\mathbb{k}-j_{sa}^s}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^k-j_{ik}-s)!}}{(l_{ik}+j_{sa}^k-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^k-1)!} \\
 & \quad \frac{(D-l_i)!}{(D+j_{sa}^k+s-\mathbf{n}-l_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} - \\
 & \quad \sum_{k=\lfloor l \rfloor}^{\lfloor l \rfloor} \sum_{(j_{ik}=j_{sa}^k)}^{\binom{n}{(n_{ik}-j_{ik}+1)}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{j^{sa}=j_{sa}} \\
 & \quad \frac{(n_{ik}+j_{sa}^k-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)! \cdot (\mathbf{n}-s)!} \cdot \\
 & \quad \frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)!\cdot(\mathbf{n}-s)!} \\
 & ((D \geq \mathbf{n} < n \wedge l_i \leq D - \mathbf{n} + 1 \wedge \\
 & j_{sa}^k \leq j_{ik} - j^{sa} + j_{sa}^k - j_{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^k \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^k + 1 = l_s \wedge l_{sa} + j_{sa}^k - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
 & D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee \\
 & (D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
 & j_{sa}^k \leq j_{ik} \leq j^{sa} + j_{sa}^k - j_{sa} \wedge
 \end{aligned}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{i_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}-j_{sa}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n+\mathbb{k}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \frac{(n_i - n_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} + 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}-j_{sa}+1)}^{(l_{ik}-k+1)} \sum_{j_{sa}=l_{ik}+j_{sa}-k-j_{sa}+2}^{l_{sa}-k+1}$$

**gündüz**

$$\begin{aligned}
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - k - j_{sa})!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(l_{sa} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - l_{sa} - l_{ik}) \cdot (j_{sa} + j_{ik} - l_{sa} - j_{sa})!} \cdot \\
 & \frac{(s + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
 & \sum_{k=\underline{i}l}^{\underline{l}} \sum_{(j_{ik}=j_{sa}^{ik})}^{( )} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-i_l+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -
 \end{aligned}$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\right)} \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\mathbb{k})}^{(n_i-j_s+1)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)!(\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - l_i - j_{sa}^{ik} - 1)!} \cdot \frac{(D - \mathbf{n})!}{(D + j^{sa} + s - \mathbf{n} - \mathbb{k} - j_{sa})! \cdots (j_{sa} - j^{sa} - s)!}.$$

$$\begin{aligned} & ((D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}) \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_i \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \geq l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\ & D + s - \mathbf{n} \leq l_i \leq D + l_s + s - \mathbf{n} - 1) \wedge \\ & (D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\ & j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\ & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\ & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge \\ & D + j_{sa} - \mathbf{n} \leq l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge \\ & \mathcal{C} \wedge I = \mathbb{k} > 0 \wedge \end{aligned}$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{K}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} &= \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{sa}-k+1} \\
&\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
&\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
&\quad \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
&\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbb{n} - 1)! \cdot (n - j^{sa})!} \cdot \\
&\quad \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
&\quad \frac{(l_{sa} + j_{sa}^{ik})!}{(l_{sa} - j_{sa}^{ik} - \mathbb{a} - l_{ik}) \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
&\quad \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
&\quad \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\
&\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
&\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
&\quad \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\
&\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbb{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
&\quad \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.
\end{aligned}$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{\mathbf{l}} \sum_{\substack{( ) \\ (j_{ik}=j_{sa}^{ik})}}^{\mathbf{l}} \sum_{\substack{( ) \\ (j^{sa}=l_{sa}+n-D)}}^{\mathbf{l}_{sa}-\mathbf{l}+1} \sum_{\substack{( ) \\ (n_i=j_{ik}+1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1) \\ (n_{sa}=n+\mathbb{k}-j^{sa}+\mathbb{k})}}^{\mathbf{n}}$$

$$\frac{(n_i - \mathbf{n}_k - 1)!}{(n_i - 2)! \cdot (n_i - \mathbf{n}_k - j_{ik} + 1)} \cdot$$

$$\frac{(n_{ik} - \mathbf{n}_k - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - \mathbb{k})! \cdot (n_{ik} - \mathbf{n}_k - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D-n-\mathbf{l}_i} \sum_{\substack{( ) \\ (j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}}^{l_{ik}-k+1} \sum_{\substack{( ) \\ (j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}}^{\mathbf{n}_i=\mathbf{n}+\mathbb{k}}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^n \sum_{\substack{( ) \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}}^{(n_i-j_s+1)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{ik} \leq D + \mathbf{l}_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_{cz}S_{j_{ik}, j^{sa}}^{D0} &= \sum_{i=1}^{l-1} \sum_{\substack{(n_i = \mathbf{n} + \mathbb{k} \\ (n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 1)}}} \sum_{\substack{(n_i - j_{ik} + 1) \\ (n_{ik} + j_{ik} - j^{sa} - \mathbb{k})}} \sum_{\substack{n_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}} \\ &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\quad \frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\quad \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \end{aligned}$$

$$\sum_{k=1}^{\binom{l_{ik}-l}{l+1}} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{I} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - i - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(n_{sa} - l)^{ik}}{(l_{ik} - l_{ik} - l)^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + s - l_{sa} - s)!}{(D + s - \mathbf{n} - l_{sa} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{s=1}^{s+l_s+j_{sa}-l_{sa}} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{s+1})}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\binom{l_s}{l_s-k}}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{\substack{( ) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}) > l_i+j_{sa}-D-s}} \sum_{n_i=n+\mathbb{k}}^{l-1} \sum_{(n_i-j_{ik}+1)}^{(n_i-j_{ik}-1)} \sum_{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}^{n_i+j_{sa}-k-s+1} \frac{(n_i - n_{ik} - 1)!}{(n_i - j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^l \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{( )} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_i+j_{sa}-\mathbf{l}-s+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l} - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l} + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbb{k})!} -$$

$$\sum_{i=1}^{D+l_s+s-n-\mathbf{l}_i} \sum_{(j_{ik}=j^{sa}-j_{sa}^{ik}-j_{sa})}^{} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{l_s+j_{sa}-k} \sum_{(n_i=j_s+1)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_{fz}S_{j_{ik}, j_{sa}}^{DO SD} &= \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{\left(l_i+j_{sa}^{ik}-k-s+1\right)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\left(n_i-j_{ik}+1\right)} \\ &\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\left(n_i-j_{ik}+1\right)} \sum_{n_{sa}=n-j_{sa}+1}^{\left(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}\right)} \\ &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ &\quad \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\quad \frac{(D + j_{sa} - l_{sa} - s)!}{(j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ &\quad \sum_{k=1}^l \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{\left(l_i+j_{sa}^{ik}-l-s+1\right)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\left(n_i-j_{ik}+1\right)} \\ &\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{\left(n_i-j_{ik}+1\right)} \sum_{n_{sa}=n-j_{sa}+1}^{\left(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}\right)} \\ &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \end{aligned}$$

**gündem**

A

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_i - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l}_i + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-\mathbf{l}_i} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\mathbf{l}_s+j_{sa}^{ik}-k} \sum_{j^{sa}=j_{sa}+j_{sa}-j_{sa}^{ik}}^{\mathbf{l}_s+j_{sa}^{ik}-k}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+j_{sa}^{is}-j_{ik})}^{(n_i-\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}-n_{ik}}^{( )} \sum_{(n_{ik}-j_{sa}-s-\mathbb{k}-j_{sa}^s)}^{( )}$$

$$\frac{(n_{ik}-j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbf{l}_i-j_{sa}^s)! \cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!}.$$

$$\frac{(-k-1)!}{(-j_{sa}^{ik}-j_{ik}-k)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

$$\frac{(\mathbf{D}-\mathbf{l}_i)!}{(D+j^{sa}+\mathbf{s}-\mathbf{n}-\mathbf{l}_i-j_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - s) \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s) \wedge$$

$$l_{ik} - j_{sa} + 1 > \mathbf{l}_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} - 1 \leq l_{sa} + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(\mathbf{l}_i \geq \mathbf{n} \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq \mathbf{n} + j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik} j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=j^{sa}+j_{sa}-j_{sa})} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=i} l \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\ )} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_{ik}+j_{sa}-i-l-j_{sa}^{ik}+1}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!} \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \\
& \frac{(l_{ik} - l_i l - j_{sa})}{(l_{ik} - j_{ik} - l_i l + \mathbf{n} - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(l_{sa} - l_{sa} - s)}{(l_{sa} - j^{sa} - \mathbf{n} - s - 1)! \cdot (\mathbf{n} - l_{sa} - s)!} - \\
& \sum_{k=1}^{D+l_s-j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{ik})}^{( )} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{l_s+j_{sa}-k} \\
& j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-\mathbb{s}+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{is}-j_{sa}^{ik}}^{( )} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{( )} \\
& \frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!} \\
& \frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \\
& (c_{ik} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge
\end{aligned}$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSS} = \sum_{k=1}^{i-1} \sum_{n=l_{sa}+n+j_{sa}-D-j_{sa}}^{(l_{sa}+j_{sa}-\mathbf{n}-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa}+j_{sa}-\mathbf{n}-j_{sa}+1)}$$

$$\sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{l_{sa}+j_{sa}^{ik}-i-l-j_{sa}+1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{sa}+j_{sa}^{ik}-i-l-j_{sa}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (-j^{sa})!}$$

$$\frac{(l_{ik} - j_{ik} - i l - j_{sa})}{(l_{ik} - j_{ik} - i l + \dots + (j_{ik} - j_{sa}^i - 1)!)}$$

$$\frac{(L_{sa} - s)!}{(L_{sa} - j^{sa} - n - s)! \cdot (n + L_{sa} - j^{sa} - s)!} =$$

$$\sum_{\substack{l_i \\ l_s \\ j_{ik} = l_i + n_{sa} - D - s}} \sum_{\substack{(l_s + j_{sa}^{ik}) \\ j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}} \sum_{\substack{D + l_s + s - n - l_i}}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}+j_{sa}^{ik}-j_{ik})}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^i-j_{sa}^{ik}} \left( \dots \right)$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(l_s - k - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D-n < n \wedge l_s \leq D - n + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$zS_{j_{ik},j}^{D\mathbf{s}} = \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{i^{l-1}(\mathbf{n}-\mathbf{l}_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-k} \sum_{n_i=\mathbf{n}+\mathbb{k}}^{(n_i-j_{ik}+1)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(n_i-n_{ik}-1)! \over (j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot$$

$${(n_{ik}-n_{sa}-\mathbb{k}-1)! \over (j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot$$

$${(n_{sa}-1)! \over (n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \cdot$$

$${(l_{ik}-k-j_{sa}^{ik})! \over (l_{ik}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$${(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})! \over (j_{ik}+l_{sa}-j^{sa}-l_{ik})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$${(D+j_{sa}-l_{sa}-s)! \over (D+j^{sa}-\mathbf{n}-l_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{\left(l_s+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=l_s+j_{sa}-k+1}^{l_{sa}-k+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(\mathbf{n} - 1)!}{(n + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_{sa} - j_{ik})!}{(l_{ik} + j_{ik} - n_{sa} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + \mathbb{k} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j^{sa} - \mathbf{l}_{sa} - s)!}{(D - j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^l \sum_{(j_{ik}=j_{sa}^{ik})}^{\left(\mathbf{l}\right)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_{sa}-i l+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+i+k_s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s}^{(n_{sa}=n_{ik}+j_{ik})} \text{lk}$$

$$\frac{(n_{ik} + j_{ik} - s - \mathbb{k} - l_{sa})!}{(n_{ik} + j_{ik} - n - \mathbb{m} - l_{sa})! \cdot (j_{ik} + j_{sa} - j_{ik} - s)!} \cdot$$

$$\frac{(\mathbb{k} - k - 1)!}{(l_s + j_s - j_{ik} - \mathbb{k} - 1) \cdot (j_{ik} - j_{sa}^{\text{ik}} - 1)!}.$$

$(D - \lambda_i)!$

$$\frac{(D + j^{sa} + s - n - l_i - j)! \cdot (n + j_{sa} - j^{sa} - s)!}{(n - l_i - j)!}$$

$$((D \geq n < n \wedge l_s \leq D - 1) + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{\text{ik}} \leq j_{ik} \leq n + j_{sa} - s$$

$$l_{ik} - j_{sa} + 1 \leq l_s \wedge l_{sa} \quad l_{sa} - j_{sa} > l_{ik} \wedge$$

$$D - l_{ik} - n < l_{sa} \leq D + l_{ik} \quad \Rightarrow \quad n - j_{sa}^{ik} \wedge$$

$$D + s - j_{sa} \leq l_i \leq D + (s - n - j_{sa}) \vee$$

$$(D \geq n < n+1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \wedge j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_a \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{rk} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$D > n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned}
 {}_{fz}S_{j_{ik}, j^{sa}}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-}^{l_{sa}-k+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik})}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}-k-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \mathbb{k})!} \cdot \\
 & \frac{(\mathbf{n} - 1)!}{(n_{sa} + n_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(\mathbf{l} - k - j_{sa}^{ik})!}{(l_{sa} + i - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa}) \cdot j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
 & \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.
 \end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{j}_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \mathbf{l}_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{\left(\begin{array}{c} n \\ j_{ik}+j_{sa}^{ik} \end{array}\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}+n-j_{sa}^{ik}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}+j_{ik}+1)}^{\left(\begin{array}{c} n_i \\ n_{ik} \end{array}\right)} \sum_{n_{sa}=n-j^{sa}+1}^{n-i_k-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1) \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - j_{sa}^{ik} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(\mathbf{l}_{sa} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{\left(\begin{array}{c} l_s+j_{sa}^{ik}-k \\ j_{ik} \end{array}\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^i}^{} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{\left(\begin{array}{c} n \\ n_{ik} \end{array}\right)}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{sa} - j_{sa} + 1 > \mathbf{l}_s \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$

$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \wedge$

$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$fzS_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)} \sum_{j_{sa}=l_{ik}+n-D}^{j_{sa}+l_{ik}-j_{sa}} \frac{\sum_{n_i=n+\mathbb{k}}^{n} \frac{(n_i-j_{ik}+1) \cdots n_{ik}+j_{ik}-j_{sa}-\mathbb{k}}{(n_{ik}=n+\mathbb{k}-j_{ik}+1) \cdots n_{sa}=n-j_{sa}+1} \cdot \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2) \cdots n_{ik}-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j_{sa}-j_{ik}-1) \cdots (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdots (\mathbf{n}-j_{sa})!} \cdot \frac{(l_{ik}-k-j_{sa})!}{(l_{ik}-j_{ik}-k+1)! \cdots (j_{ik}-j_{sa}^i-1)!} \cdot \frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(l_{ik}+j_{sa}-l_{ik})! \cdots (j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-l_{sa})! \cdots (\mathbf{n}+j_{sa}-j_{sa}-s)!} + \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{ik}-k+1)} \sum_{j_{sa}=l_{ik}+j_{sa}-k-j_{sa}^i+2}^{l_{sa}-k+1} \sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2) \cdots (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j_{sa}-j_{ik}-1) \cdots (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k})!} .$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1, l} \sum_{(j_{ik} = l_{ik} + \dots + 0)} \sum_{j^{sa} = l_{sa} + n - D - s} \binom{l_{ik} - i_l + 1}{n_i - j_{ik} - 1} \binom{n_i - j_{sa} + 1}{n_{sa} - j^{sa} + 1}$$

$$\sum_{n_i = n - \mathbf{k}} \sum_{(n_{ik} = n + \mathbf{l} - i_k + 1)} \sum_{n_{sa} = n - j^{sa} + 1} \binom{n_i - n_{ik} - 1}{j_{ik} - 1} \binom{n_i - n_{ik} - j_{ik} + 1}{n_{ik} - j_{ik} - \mathbf{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbf{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbf{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - i_l - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - i_l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-\mathbf{n}-l_i} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\left(\right)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^i} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k})} \frac{(n_{ik} + j_{sa}^i - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^i - j_{ik} - s)!} \cdot \frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^i - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^i - \mathbb{s} - s)!}$$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^i \leq j_{ik} \leq j_{sa}^s + j_{sa}^i - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^i + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^i - j_{sa} > \mathbf{l}_{ik} \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^i \leq j_{ik} \leq j_{sa}^s + j_{sa}^i - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{sa} - j_{sa} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - 1 \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$

$D + s - \mathbf{n} < \mathbf{l}_i \leq \mathbf{l}_s + l_{sa} + j_{sa} - j_{sa} \wedge$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^i \leq j_{ik} \leq j_{sa}^s + j_{sa}^i - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$

$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$

$j_{sa}^i \leq j_{ik} \leq j_{sa}^s + j_{sa}^i - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^i \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$

$\mathbf{l}_{ik} - j_{sa}^i + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^i - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$\begin{aligned} {}_{fz}S_{j_{ik}, j_{sa}}^{DOSD} = & \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{ik}+n+D)}^{l-1 (l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+D}^{l_{sa}-k+1} \\ & \sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_i - n_{ik} - \mathbb{k} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_i + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - k - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ & \sum_{k=1}^{l-1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{l-1 (l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}-k+1} \\ & \sum_{n_i=n+\mathbb{k}}^{n} \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathfrak{l}_{ik} - k - j_{sa}^{ik})!}{(\mathfrak{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik})!}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \dots - j_{sa})!}$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})!} \cdot s + j_{sa} - l_{sa} - (s-1)! +$$

$$\sum_{k=1}^{l_{ik}-l+1} \sum_{j=k+l_{sa}-l+1}^{l_{sa}-l+1} u_{j_{sa}+j-k}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=\mathbb{K}-j_{ik}+1)}^{(n_i-j_{ik})} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - {}_i l - j_{sa}^{ik})!}{(l_{ik} - j_{ik} - {}_i l + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\begin{array}{c} \\ \end{array}\right)} \frac{(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s)!}{(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s)!\cdot (\mathbf{n}+j_{sa}^{ik}-j_{ik}-s)!} \cdot$$

$$\frac{(l_s-l_i-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-k)!\cdot (j_{sa}^{ik}-j_{ik}-1)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_{sa}^s+s-\mathbf{n}-j_{sa}^s)!\cdot (\mathbf{n}+j_{sa}^{ik}-j_{sa}^s-s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \wedge l_{ik} - j_{sa}^{ik} - l_{sa} = l_i \wedge l_i - j_{sa} - s = l_t \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + j_{sa}^s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbb{k} \wedge s = s + \mathbb{k} \wedge$$

$$z_1 : z = \omega_1 \rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{l_{ik}+j_{sa}-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^s-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - \mathbf{l}_{sa})!} +$$

$$\sum_{\substack{i^{l-1} \\ (j_{ik} = l_{ik} + n - D) \\ n_i = n + \mathbb{k}}}^{\mathbf{l}_{ik} - (n_{ik} - \mathbb{k} + 1)} \sum_{\substack{i \\ j^{sa} = l_{ik} + n - j_{ik} + 1}}^{i_{sa} - k - s + 1} \sum_{\substack{i \\ n_{sa} = n - j^{sa} + 1}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - \mathbb{k} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=l} \sum_{(j_{ik} = l_{ik} + \mathbf{n} - D)}^{\mathbf{l}_{ik} - i^{l+1}} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{i_{sa} - i^{l-s+1}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k} - 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{i}l - J_{sa})}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{i}l + s - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - \mathbf{i}a - \mathbf{l}_s - j_{sa})}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - l_{ik} - 1) \cdot (j^{sa} + j_{ik}^{ik} - \mathbf{l}_s - j_{sa})!}.$$

$$\frac{(\mathbf{n} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{D+l_s+j_{sa}-l_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}}^{n} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k})}^{} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-k}$$

$$\frac{(n_{ik} + j_{sa}^{ik} - s - \mathbb{k} - j_{sa}^s)!}{(n_{ik} + j_{ik} - \mathbf{n} - \mathbb{k} - j_{sa}^s)! \cdot (\mathbf{n} + j_{sa}^{ik} - j_{ik} - s)!}.$$

$$\frac{(\mathbf{l}_s - k - 1)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - k)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 1 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{DOSD} = \sum_{k=1}^{i-1} \sum_{\substack{(j_{ik}=l_i+n-D) \\ (n_i=n+\mathbb{k})}} \sum_{\substack{(l_i+n+j_{sa}-D-s-1) \\ (n_{ik}=n+\mathbb{k}-j_{ik}+1)}} \sum_{\substack{(l_i+j_{sa}-k-s+1) \\ (n_{sa}=n-j^{sa}+1)}} \sum_{\substack{(n_i-n_{ik}-1) \\ (n_{ik}-n_{sa}-\mathbb{k}-1)}} \sum_{\substack{(n_i-n_{ik}-j_{ik}+1) \\ (j^{sa}-j_{sa}^{ik}-1)}} \sum_{\substack{(n_i-n_{ik}-1)! \\ ((n_i-n_{ik}-j_{ik}+1)!)}} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}-1)!}{(j^{sa}-j_{sa}^{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k})!} \cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik}-k-j_{sa}^{ik})!}{(\mathbf{l}_{ik}-j_{ik}-k+1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa}+j_{sa}^{ik}-\mathbf{l}_{ik}-j_{sa})!}{(\mathbf{j}_{ik}+\mathbf{l}_{sa}-j^{sa}-\mathbf{l}_{ik})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j^{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j^{sa}-s)!} +$$

$$\sum_{k=1}^{i-1} \sum_{\substack{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}} \sum_{\substack{(l_{ik}-k+1) \\ (j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - k - j_{sa})!}{(\mathbf{l}_{ik} - j_{ik} - k + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} - l_{sa} - \mathbf{l}_i - j_{sa})!}{(j_{ik} + l_{sa} - l_{sa} - l_{ik} - 1) \cdot (j_{sa} + l_{sa} - l_{ik} - j_{sa})!}.$$

$$\frac{(\mathbf{l}_i + j_{sa} - \mathbf{l}_i - s)!}{(D + j^{sa} - \mathbf{n} - s - 1)! \cdot (\mathbf{n} - \mathbf{l}_i - j^{sa} - s)!} +$$

$$\sum_{k=1 \cup \mathbf{l}_{ik} - \mathbf{l}_{ik} + \mathbf{n} - D}^{\mathbf{l}_{ik} - l_{ik} + 1} \sum_{j^{sa}=\mathbf{l}_i + \mathbf{n} + j_{sa} - D - s}^{l_i + j_{sa} - \mathbf{l}_i l - s + 1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(\mathbf{l}_{ik} - \mathbf{l}_i l - j_{sa}^{ik})!}{(\mathbf{l}_{ik} - j_{ik} - \mathbf{l}_i l + 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\begin{aligned}
 & \sum_{k=1}^{D+l_s+j_{sa}-\mathbf{n}-l_{sa}} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\left(l_s+j_{sa}^{ik}-k\right)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
 & \quad \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\
 & \quad \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}}^{\left(\Delta\right)} \sum_{(n_{sa}=n_{ik}+j_{sa}-j^{sa}-\mathbb{k})} \\
 & \quad \frac{\left(n_{ik}+j_{sa}^{ik}-s-\mathbb{k}-j_{sa}^s\right)!}{\left(n_{ik}+j_{ik}-\mathbf{n}-\mathbb{k}-j_{sa}^s\right)!\cdots\left(\mathbf{n}+j_{sa}^{ik}-j_{ik}-s\right)!} \cdot \\
 & \quad \frac{\left(l_s-k-1\right)!}{\left(l_s+j_{sa}^{ik}-j_{ik}-s\right)!\cdots\left(j_{ik}+j_{sa}^{ik}-1\right)!} \cdot \\
 & \quad \frac{\left(D-\mathbf{n}\right)!}{\left(D+j_{sa}^s+s-\mathbf{n}-\mathbb{k}-j_{sa}^s\right)!\cdots\left(j_{sa}+j^{sa}-s\right)!}
 \end{aligned}$$

**giündüz**

## DİZİN

### B

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumu simetrinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.1/3

toplam düzgün simetrik olasılık, 2.3.1.2.1.1.1.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumu bağımsız simetrinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.2.1/3

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 durumu bağımlı simetrinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.3.1/3

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 durumu simetrinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.1.1/2

toplam düzgün simetrik olasılık, 2.3.1.2.1.1.1.1/228

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.1.1/290

Bağımlı ve bir bağımsız olasılıklı farklı bir bağımlı-bir bağımsız durumu bağımsız simetrinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.2.1/203

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 durumu bağımlı simetrinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.3.1/203

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 bir bağımsız durumu simetrinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.4.1.1/3

toplam düzgün simetrik olasılık, 2.3.1.2.1.1.4.1.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.4.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bir bağımsız durumu bağımsız simetrinin 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 durumu bağımlı simetrinin 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 durumu simetrinin 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, 2.3.1.3.1.1.1/296-297

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bağımsız durumlu bağımsız simetrinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.2.1/207

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 simetrinin son durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.1.3.1/207

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 simetrinin 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 simetrinin 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 simetrinin 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 simetrinin durumuna bağlı

simetrik olasılık, 2.3.1.1.1.1.1/105

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 simetrinin durumuna bağlı

simetrik olasılık, 2.3.1.1.1.1.1/105

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 simetrinin durumuna bağlı

simetrik olasılık, 2.3.1.1.1.1.3.1/105

toplam düzgün simetrik olasılık, 2.3.1.2.1.1.3.1/85

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.1.1.3.1/150-151

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin 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 simetrinin 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 simetrinin 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  
simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.2.1.1/5

toplam düzgün simetrik olasılık,  
2.3.1.2.2.2.1.1/3

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.2.2.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımlı durumlu  
bağımsız simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.2.2.1/5

toplam düzgün simetrik olasılık,  
2.3.1.2.2.2.2.1/3

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.2.2.2.1/6

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımlı durumlu  
bağımlı simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.2.3.1/3-4

toplam düzgün simetrik olasılık,  
2.3.1.2.2.2.3.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.2.2.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bir bağımsız durumlu  
simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.4.1.1/4

toplam düzgün simetrik olasılık,  
2.3.1.2.4.1.1/3

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  
simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.4.2.1/4

toplam düzgün simetrik olasılık,  
2.3.1.2.2.4.2.1/3

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.2.4.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bir bağımsız durumlu  
bağımlı simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.4.3.1/4

toplam düzgün simetrik olasılık,  
2.3.1.2.2.4.3.1/3

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.2.4.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bağımsız durumlu  
simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.6.1.1/4

toplam düzgün simetrik olasılık,  
2.3.1.2.6.1.1/3

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.2.6.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bağımsız durumlu  
bağımsız simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.6.2.1/4

toplam düzgün simetrik olasılık,  
2.3.1.2.2.6.2.1/3

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.2.6.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bağımsız durumlu  
bağımlı simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.6.3.1/4

toplam düzgün simetrik olasılık,  
2.3.1.2.2.6.3.1/3

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.2.6.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımsız durumlu  
simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.7.1.1/5

toplam düzgün simetrik olasılık,  
2.3.1.2.2.7.1.1/3

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.2.7.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımsız durumlu  
bağımsız simetrinin ilk ve son durumunun  
bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.2.7.2.1/5

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 simetrinin ilk ve son durumunun  
bulunabilecegi 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 simetrinin ilk  
ve herhangi bir durumunun bulunabilecegi  
olaylara göre

simetrik olasılık, 2.3.1.1.3.1.1/4

toplam düzgün simetrik olasılık,  
2.3.1.2.3.1.1/3

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.3.1.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı durumlu bağımsız  
simetrinin ilk ve herhangi bir durumunun  
bulunabilecegi 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 bağımsız  
simetrinin ilk ve herhangi bir durumunun  
bulunabilecegi 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  
simetrinin ilk ve herhangi bir durumunun  
bulunabilecegi 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 simetrinin ilk ve herhangi bir  
durumunun bulunabilecegi 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, 2.3.1.3.3.2.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımlı durumlu  
bağımlı simetrinin ilk ve herhangi bir  
durumunun bulunabilecegi olaylara göre  
simetrik olasılık, 2.3.1.1.3.2.3.1/4

toplam düzgün simetrik olasılık,  
2.3.1.2.3.3.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.3.2.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı durumlu simetrinin  
herhangi iki 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  
simetrinin 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  
simetrinin 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 simetrinin her  
durumunun bulunabilecegi olaylara göre  
simetrik olasılık, 2.3.1.1.4.1.1.1/838

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı durumlu bağımsız

simetrinin her durumunun bulunabileceği olaylara göre

simetrik olasılık,  
2.3.1.1.4.1.2.1/838

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin her durumunun bulunabileceği olaylara göre

**simetrik olasılık,**  
2.3.1.1.4.1.3.1/838

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

simetrik olasılık, 2.3.1.1.5.1.1.1/4-5  
toplam düzgün simetrik olasılık,  
2.3.1.2.5.1.1.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.5.1.1.1/7-8

Bağımlı ve bir bağımsız olasılıkla farklı dizilimsiz bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumun 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 dönen simetri olasılık, 2.3.1.3.5.1.2-7-8~~

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağlı durumlu bağımlı simetrik ilk ve ikinci iki durumları bulunabilecek olayları söyle

~~simetri ve hasılık, 2.3.1.1.5.1.3.1/4-5  
toplam dengenin simetrik ve hasılık,  
2.3.1.2.5.1.3.1/3~~

oplam düzgün olmayan simetrik  
örneklik, 2.3.1.3., 2.3.1/7-8

Bağımlı ve sır bağımlı olasılıklı farklı dizilişiz bağımlı durumlu sınımlı ilk ve herhangi iki durumunun bulunabileceğii olaylara göre

simetrik olasılık, 2.3.1.1.5.2.1.1/6  
tam düzgün simetrik olasılık,

2.3.1.2.5.2.1.1/3  
toplam düzgün olmayan simetrik

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre olasılık, 2.3.1.3.5.2.1.1/12

simetrik olasılık, 2.3.1.1.5.2.2.1/6  
toplam düzgün simetrik olasılık,  
2.3.1.2.5.2.2.1/3

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.5.2.2.1/12

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk ve ~~hangi~~ iki durumunun bulunabileceği olasılıkları ~~üre~~

simetrik olasılık, 2.3.1.15 2.3.1.16  
toplam düzgün simetrik olasılık

~~2.3.1.2.5.2.3.1/3-4  
toplam düzungü olmayan simetrik~~

olasılık, 2. 2. 5. 3.1/7-8

Bagimli ve bir bagimsiz olasilikli ikili dizilimsiz bagimli durumlu metrinin ilk ve herhangi iki durumunun bulunabilecegi olasılık to herhangi iki duruma bağlı  
1 2 3 1 1 2 1 1 1 7 8

simetrik olamadı, 2.3.1.3.8.1.1.1/8  
olamadı, 2.3.1.3.8.1.1.1/8  
bağımsız olasılıklı farklılık, 2.3.1.1.8.1.1.1/-8

Bağımlı ve bağımsız olasılık tarihin dizilişini bağımlı durumlu bağımsız simetri ile ilk ve herhangi iki durumunun bulunabilirceği olaylara göre herhangi iki durum bağılı

simetrik olasılık, 2.3.1.1.8.1.2.1/7-8  
toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.8.1.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

simetrik olasılık, 2.3.1.1.8.1.3.1/7-8  
toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.8.1.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

simetrik olasılık, 2.3.1.1.8.2.1.1/12  
toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.8.2.1.1/13

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

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 ve 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, 2.3.1.1.6.2.3.1.1/5  
toplam düzgün simetrik olasılık, 2.3.1.2.6.2.3.1/3-4  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.2.3.1/6

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 simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre simetrik olasılık, 2.3.1.1.6.6.2.1/4-5  
toplam düzgün simetrik olasılık, 2.3.1.2.6.6.2.1/3-4  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.6.2.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre simetrik olasılık, 2.3.1.1.6.6.3.1/4-5  
toplam düzgün simetrik olasılık, 2.3.1.2.6.6.3.1/3-4  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.6.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre simetrik olasılık, 2.3.1.1.6.7.1.1/6  
toplam düzgün simetrik olasılık, 2.3.1.2.6.7.1.1/3-4  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.7.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre simetrik olasılık, 2.3.1.1.6.7.2.1/6  
toplam düzgün simetrik olasılık, 2.3.1.2.6.7.2.1/3-4  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.7.2.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre simetrik olasılık, 2.3.1.1.6.7.3.1/4-5  
toplam düzgün simetrik olasılık, 2.3.1.2.6.7.3.1/3-4  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.6.7.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk herhangi bir ve son durumunun

bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.1.1.1/7-8  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.1.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.1.2.1/7-8  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.1.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.1.3.1/7-8  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.1.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.2.1.1/12  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.2.1.1/13

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.2.2.1/12

toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.2.2.1/13

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

simetrik olasılık, 2.3.1.1.9.2.3.1/8  
toplam düzgün olmayan simetrik olasılık, 2.3.1.3.9.2.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre herhangi bir ve son duruma bağlı

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 simetrinin 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 simetrinin 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 simetrinin 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 simetrinin 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 simetrinin 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 simetrinin 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 simetrinin 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 simetrinin 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 durumlu simetrinin 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 simetrinin 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 simetrinin 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 simetrinin 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 durumlu  
bağımsız simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.2.2.1/7

toplam düzgün simetrik olasılık,  
2.3.1.2.7.2.2.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.7.2.2.1/12

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımlı durumlu  
bağımlı simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.2.3.1/5

toplam düzgün simetrik olasılık,  
2.3.1.2.7.2.3.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.7.2.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bir bağımsız durumlu  
simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.4.1.1/5

toplam düzgün simetrik olasılık,  
2.3.1.2.7.4.1.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.7.4.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bir bağımsız durumlu  
bağımsız simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.4.2.1/5

toplam düzgün simetrik olasılık,  
2.3.1.2.7.4.2.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.7.4.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bir bağımsız durumlu  
bağımlı simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.4.3.1/5

toplam düzgün simetrik olasılık,  
2.3.1.2.7.4.3.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.7.4.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bağımsız durumlu  
bağımsız simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.6.1.1/5

toplam düzgün simetrik olasılık,  
2.3.1.2.7.6.1.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.7.6.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bağımsız durumlu  
bağımsız simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.6.2.1/5

toplam düzgün simetrik olasılık,  
2.3.1.2.7.6.2.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.7.6.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bağımsız durumlu  
bağımlı simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.6.3.1/5

toplam düzgün simetrik olasılık,  
2.3.1.2.7.6.3.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.7.6.3.1/8

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımsız durumlu  
simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.7.1.1/7

toplam düzgün simetrik olasılık,  
2.3.1.2.7.7.1.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.7.7.1.1/12

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımsız durumlu  
bağımsız simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.7.2.1/7

toplam düzgün simetrik olasılık,  
2.3.1.2.7.7.2.1/3-4

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.7.7.2.1/12

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımsız durumlu  
bağımlı simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
simetrik olasılık, 2.3.1.1.7.7.3.1/5

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 bağımsız-bağımlı durumlu  
simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
herhangi bir ve son durumuna bağlı

simetrik olasılık,  
2.3.1.1.10.2.1.1/2

toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.10.2.1.1/23

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımlı durumlu  
simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
herhangi bir ve son durumuna bağlı

simetrik olasılık,  
2.3.1.1.10.2.2.1/22

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-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-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-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 bağımsız-bağımsız durumlu  
simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
herhangi bir ve son durumuna bağlı

simetrik olasılık,

2.3.1.1.10.6.1.1/12-13

toplam  
düzgün olmayan simetrik olasılık,

2.3.1.3.10.6.1.1/23

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımsız durumlu  
bağımsız simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
herhangi bir ve son durumuna bağlı

simetrik olasılık,  
2.3.1.1.10.6.2.1/12-13  
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,  
2.3.1.1.11.4.1.1/16  
toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.11.4.1.1/30

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bir bağımsız durumlu  
bağımsız simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
herhangi iki ve son durumuna bağlı

simetrik olasılık,  
2.3.1.1.11.4.2.1/16  
toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.11.4.2.1/30

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bir bağımsız durumlu  
bağımlı simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
herhangi iki ve son durumuna bağlı

simetrik olasılık,  
2.3.1.1.11.4.3.1/16  
toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.11.4.3.1/30

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bağımsız durumlu  
simetrinin 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 durumlu  
bağımsız simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
herhangi iki ve son durumuna bağlı

simetrik olasılık,  
2.3.1.1.11.6.2.1/16  
toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.11.6.2.1/30

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımlı-bağımsız durumlu  
simetrinin 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 durumlu  
simetrinin 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 durumlu  
bağımsız simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
herhangi iki ve son durumuna bağlı

simetrik olasılık,  
2.3.1.1.11.7.2.1/29  
toplam düzgün olmayan simetrik  
olasılık, 2.3.1.3.11.7.2.1/30

Bağımlı ve bir bağımsız olasılıklı farklı  
dizilimsiz bağımsız-bağımsız durumlu  
bağımlı simetrinin ilk herhangi iki ve son  
durumunun bulunabileceği olaylara göre  
herhangi iki ve son durumuna bağlı

simetrik olasılık,  
2.3.1.1.11.7.3.1/16  
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 herhangi iki durumuna bağlı toplam düzgün olmayan simetrik olasılığın, tanım ve eşitliklerinden oluşmaktadır.

VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin herhangi iki durumuna toplam bağlı düzgün olmayan simetrik olasılık tablosunu ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetrinin herhangi iki durumuna bağlı toplam düzgün olmayan simetrik olasılığın, tanım ve eşitlikleri verilmektedir.

VDOİHİ’nin diğer ciltlerinde olduğu gibi bu ciltte de verilen ana eşitlikler, olasılık tablolarından elde edilen verilerle üretilmiştir. Diğer eşitlikler ise bu eşitliklerden farklı yöntemle üretilmiştir. Eşitlik ve tanımların üretilmesinde dış kılavuz kullanılmıştır.

**gündün**