VDOİHİ

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

Cilt 2.3.1.3.7.1.1.768

İsmail YILMAZ

2023

VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık Cilt 2.3.1.3.7.1.1.768

İsmail YILMAZ

Türkiye Cumhuriyeti Devleti
Kuruluşunun
100. Yılı Anısına

DÜZELTME

Bu cilt için

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

simgesi yerine

$$_{fz}S^{DOSD}_{j_s\,,j_{ik},j^{sa},j_i}$$

simgesi olmalı.

d

Yazar Hakkında

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

VDOİHİ

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

VDOİHİ'de Olasılık;

- ✓ Makinaların insan gibi düşünebilmesini, karar verebilmesini ve davranabilmesini sağlayacak gerçek yapay zekayla ilişkilendirilmiştir.

- ✓ Dillerin matematik yapısı olduğu gösterilmiştir.

- ✓ Tüm tabanlarda, tüm dağılım türlerinde ve istenildiğinde dağılım türü ve tabanı değiştirerek çalışabilecek elektronik teknolojisinin temelidir.

- ✓ Teorik kabullerle genetikle ilişkilendirilmiştir.

- ✓ Bilgi merkezli değerlendirme yöntemidir.

Sanırım bilgi ve teknolojideki kaderimiz veriyle ilişkilendirilmiş.

f

İÇİNDEKİLER

Simge ve Kısaltmalar

n: olay sayısı

$\boldsymbol{n}$: bağımlı olay sayısı

$\mathbb{m}$: bağımsız olay sayısı

ι: bağımsız durum sayısı

I: simetrinin bağımsız durum sayısı

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

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

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

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

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

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

l_i: simetrinin son bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrinin birinci bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlarındaki sırası

l_s: simetrinin ilk bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrinin sonuncu bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlarındaki sırası

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

l_{sa}: simetrinin aranacağı bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz dağılımlardaki sırası. Simetrinin aranacağı bağımlı olayındaki durumun, bağımlı olasılık farklı dizilimsiz dağılımlarındaki sırası

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

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

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

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

durum arasında bağımsız durumun bulunduğunda bağımsız durumdan önceki bağımlı durumun bağımlı olasılıklı dağılımlarda bulunabileceği olayların son olaydan itibaren sırası

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

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

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

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

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

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

D: bağımlı durum sayısı

D_i: olayın durum sayısı

s: simetrinin bağımlı durum sayısı

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

m: olasılık

M: olasılık dağılım sayısı

U: uyum eşitliği

u: uyum derecesi

s_i: olasılık dağılımı

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

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

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

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

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

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

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

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

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

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

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

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simetrinin son durumunun bulunabileceği olaylara göre toplam düzgün simetrik olasılık

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

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olaylara göre toplam düzgün simetrik olasılık

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

simetrinin son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

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

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

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bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık

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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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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

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E2

BAĞIMLI ve BİR BAĞIMSIZ OLASILIKLI FARKLI DİZİLİMSİZ DAĞILIMLAR

Bağımlı ve Bir Bağımsız Olasılıklı Farklı Dizilimsiz Dağılımlar

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

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

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

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

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

Farklı dizilimsiz dağılımlarda simetrinin durumlarının olasılık dağılımındaki sıra simetrik olasılıkları etkilediğinden, bu bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımları da etkiler. Bu nedenle bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetrinin durumlarının bulunabileceği olaylara göre simetrik olasılık eşitlikleri, simetrinin durumlarının olasılık dağılımındaki sıralamalarına göre ayrı ayrı verilecektir. Bu eşitliklerin elde edilmesinde bağımlı olasılıklı farklı dizilimsiz dağılımlarda simetrinin durumların bulunabileceği olaylara göre çıkarılan eşitlikler kullanılacaktır. Bu eşitlikler, bir bağımlı ve bir bağımsız olasılıklı dağılımlar için VDO II Cilt 2'de çıkarılan eşitliklerle birleştirilerek, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımların yeni eşitlikleri elde edilecektir. Eşitlikleri adlandırılmasında da bağımlı olasılıklı farklı dizilimsiz dağılımlarda kullanılan adlandırmalar kullanılacaktır. Bu adların sonuna simetrinin bağımlı ve bağımsız durumlarına göre ve dağılımın bağımsız veya bağımlı durumla başlamasına göre "Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı/bağımsız-bağımlı/bağımlı-bir bağımsız/bağımlı-bağımsız/bağımsız-bağımsız durumlu /bağımsız/bağımlı" kelimeleri getirilerek, simetrinin bağımlı durumlarını bulunabileceği olaylara göre bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz adları elde edilecektir. Simetriden seçilen durumların bulunabileceği olaylara göre simetrik, düzgün simetrik veya düzgün olmayan simetrik olasılık için birden fazla eşitlik kullanılması durumunda gerekmedikçe yeni tanımlama yapılmayacaktır.

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

Bu nitelikte bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetrinin ilk herhangi ilk ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık eşitlikleri verilmektedir.

SİMETRİDEN SEÇİLEN DÖRT DURUMA GÖRE TOPLAM DÜZGÜN OLMAYAN SİMETRİK OLASILIK

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

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

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

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

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

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

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{\epsilon_z} S_{j_s, j_{ik}, j^{sa}} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

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

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

$$\frac{(\qquad \boldsymbol{l_i})!}{(D + j \qquad \boldsymbol{n} - \boldsymbol{l_i}) \qquad j_i)!} +$$

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

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

$$\sum_{n = \boldsymbol{n} + \Bbbk}^{(n_i - j_s)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\,_i l} \sum_{(j_s=\,}^{(\;)}$$

$$\sum_{j\,=j_{sa}^{ik}} \sum_{(\;)} \sum_{=s}^{l_i - \,_i l + 1}$$

$$\sum_{i=}^{n} \sum_{=n+}^{(n_i - j_{ik} - \Bbbk_1 + 1)} {}_{\Bbbk_3 - j_{ik} + 1)}$$

$$\sum_{n_{sa}\,+\Bbbk_3 - j^{sa}}^{n_{ik}+j_{sa}-\Bbbk_2} \sum_{(n_s = n - j_i + 1)}^{(n_{sa}\,\;j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(\;-2)! \cdot (\;- n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

$$\sum_{k=1}^{_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\;)}$$

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

6        $D > \boldsymbol{n} < n$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!}\cdot$$

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

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

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

$$\sum_{k=\;_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\;)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\;)}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!\cdot(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{sa}^{s})!}\cdot$$

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

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_i \leq D + s - \boldsymbol{n} \wedge$

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

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

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

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

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

$$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j} = \sum_{\substack{k=1 \\ (j_s = j_{ik} - j_s + 1)}}^{l-1}$$

$$\sum_{j_{ik} = \cdots + j_{sa}^{ik} - j_{sa}}^{(j_i + j_{sa} - \cdots + j_{sa}^{ik} - k - s + 1)} \sum_{sa = j_{sa} + 1} \cdots$$

$$\sum_{\substack{\cdots = \boldsymbol{n} + \Bbbk \\ (n_{is} = \boldsymbol{n} + \Bbbk \cdots + 1)}}^{n} \sum_{\cdots - j_s + 1} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + \cdots - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

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

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

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

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + \quad}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - \quad + 1}^{n_{is} + j_s - \quad - \Bbbk_1}$$

$$\sum_{(n_{sa} = \quad \Bbbk_3 - j^{sa}+1)}^{\quad + j_{ik} - j^{sa} - \Bbbk_2} \sum_{}^{\quad sa + j^{sa} - j_i - \Bbbk_3}{}_{j_i + 1}$$

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

$$\frac{(n_{is} - n \quad - \Bbbk_1 - 1)!}{j_{ik} - j_s \quad 1)! \cdot (n \quad + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_i \quad - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k = {}_i\boldsymbol{l}}^{} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{(\;)} \sum_{(j^{sa}=j_{sa})}^{} \sum_{j_i=s}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik})}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\ \ -j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk\ )}$$

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

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2\ \ )!}{(j^{sa}-j_{ik}-1)!\ \ _{ik}\ -n_{sa}\ -j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(\ \ -n_s-1)!}{(j_i-\ \ -1)!\cdot\ \ +j^{sa}-n_s-j_i)!}\cdot$$

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

$$\frac{\ \ _i+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(\boldsymbol{l_i}+j_{sa}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i-s)!}\cdot$$

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

$$\sum_{k=1}^{_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}^{}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

$$\sum_{k=\ _i l}^{(\ )} (j_s$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{(\ )} (j^{sa} \quad _{sa}) \sum_{j_i=s}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{n} (n_{ik}=n_i-j_{ik}-\Bbbk_1+1) \sum^{(\ )}$$

$$\sum_{sa=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{(\ )} (n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)$$

$$\frac{(n_i + 2 \cdot j_s \quad^{ik} \quad - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \quad \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 \quad)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

$\geq \boldsymbol{n} < \quad \wedge \boldsymbol{l}_i \leq D + \quad - \boldsymbol{n} \wedge$

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

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

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

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

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

$\boldsymbol{s} : \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$$\mathbb{k}_z : z = 3 \land \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$$

$$
{}_{fz}S_{j_s,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{{}_i l -1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}
$$

$$
\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}}^{(j_i + j_{sa} - s)} \sum_{(j^{sa} = j_{sa} + 1)}^{} \sum_{j_i = s + 1}^{l_s + s - k}
$$

$$
\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{is} = \boldsymbol{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \ }^{n_{is} + j_s - k - \mathbb{k}_1}
$$

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

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

$$
\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)!\cdot(n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!}\cdot
$$

$$
\frac{(n_{ik} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)!\cdot(n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}\cdot
$$

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

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

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

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

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

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 + 1)!}{(j_{ik} - j_s - 1)! \, (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 + 1)!}{(j^{sa} - j_{ik} - 1)! \, (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\,_il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \;\; \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!}\cdot$$

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

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

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

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \;\; \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \;\; \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \;\; \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!}\cdot$$

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

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

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

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

$$\sum_{k=\, _i l} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j\ \ j_{sa})}^{(\ )} \sum_{j_i=s}$$

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

$$\sum_{\ =n_{ik}+j_{i}\ \ sa-\mathbb{k}_2\ (\ )}^{(\ )} \ \ j_i-\mathbb{k}_3)$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i\ \ \mathbb{k}_1 - \mathbb{k}_2\ \ \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2\ \ \mathbb{k}_3)! \cdot (\boldsymbol{n} + 2\ \ j\ \ + j_{sa}^{ik}\ -\ - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

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

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

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

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

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

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

$$\boldsymbol{s} : \left\{ j_s^s\ \ ., \mathbb{k}_1, j_{sa}\ \ \ _2, j_{sa}, \mathbb{k}_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s}\ \ \ + \mathbb{k} \wedge$$

$$\ \ z = \ \ \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$$

$$_{fz} S_{j_s\ , j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{\,_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk \quad 1)!}{(j_{ik}-j_s-1) \quad +j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)}{(j^{sa}-j_{ik}-1) \quad (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1) \quad (n_{sa}+j^{sa}-n_s-j_i)!}$$

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

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

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

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

$$\sum_{k=\ _il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}^{(\ )}\sum_{j_i=s}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

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

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

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

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

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(l_i - j_{sa} - l_{sa} - \cdots)! \cdot (j_i - s)!} \cdot$$

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{n}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

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

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j \quad j_{sa})}^{(\ )} \sum_{j_i = s}$$

$$\sum_{n_i \quad \Bbbk \ (n_{ik} = n_i - j_{ik} \quad +1)}^{n} \sum^{(\ )}$$

$$\sum_{\quad =n_{ik}+j_{u} \quad sa - \Bbbk_2 \ (\quad j_i - \Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i \quad \Bbbk_1 - \Bbbk_2 \quad \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 \quad \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \quad + j_{sa}^{ik} \quad - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s \quad \wedge$

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

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

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

$D \geq \quad < n \wedge I = \Bbbk \quad 0 \wedge$

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

$\boldsymbol{s}: \{j_s^s \quad ., \Bbbk_1, j_{sa} \quad _2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \quad s + \Bbbk \wedge$

$\quad z = \quad \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s \ , j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_i}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-1}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\,(n_{is}-j_i-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\,(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{l_i-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\ \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

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

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

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

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\ \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )}\ \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

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

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

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

$$\sum_{k = {}_il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j \quad j_{sa})}^{(\ )} \sum_{j_i=s}$$

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

$$\sum_{n \quad =n_{ik}+j_{ik} \quad sa - \Bbbk_2 (} \sum^{(\ )} {}_{-j_i - \Bbbk_3})$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i \quad \Bbbk_1 - \Bbbk_2 \quad \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 \quad \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \quad + j_{sa}^{ik} \quad - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

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

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

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

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

$D \geq \quad < n \wedge I = \Bbbk \quad 0 \wedge$

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

$\boldsymbol{s}: \{ j_s^s \quad ., \Bbbk_1, j_{sa} \quad {}_2, j_{sa}, \Bbbk_3, j_{sa}^i \} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \quad s + \Bbbk \wedge$

$\quad z = \quad \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_il-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\ )}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk1)!}{(j_{ik}-j_s-1j_s-n-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n-\Bbbk_2-1)}{(^{sa}-j_{ik}-1)(n_{ik}+-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(_{sa}-n_s1)!}{(j_i-j^{sa}-1)(n_{sa}+j^{sa}-n_s-j_i)!}$$

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

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

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

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

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

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{()} \sum_{j_i=s}^{l_i-_i l+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

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

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

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(\boldsymbol{l}_i - j_{sa} - \boldsymbol{l}_{sa})! \cdot (j_i - s)!} \cdot$$

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

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

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j \quad j_{sa})}^{(\ )} \sum_{j_i = s}$$

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

$$\sum_{=n_{ik} + j_{ik} \quad sa - \Bbbk_2}^{(\ )} (\quad j_i - \Bbbk_3)$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i \quad \Bbbk_1 - \Bbbk_2 \quad \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - n - \Bbbk_1 - \Bbbk_2 \quad \Bbbk_3)! \cdot (n + 2 \quad + j_{sa}^{ik} \quad - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

$D \geq n < n \wedge l_i \leq D + s \quad \wedge$

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

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

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

$D \geq \quad < n \wedge I = \Bbbk \quad 0 \wedge$

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

$s : \{ j_s^s \quad , \Bbbk_1, j_{sa} \quad {}_2, j_{sa}, \Bbbk_3, j_{sa}^i \} \wedge$

$s \geq 6 \wedge s \quad s + \Bbbk \wedge$

$z = \quad \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s \,, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \quad \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \quad \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \quad \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

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

$$\frac{(n \quad -n_{ik}-\Bbbk_1 \quad 1)!}{(j_{ik}-j_s-1) \quad (n_i-n \quad -j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{s} \quad -\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1) \quad (n_{ik}+j \quad -n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(\quad a-n_s \quad 1)!}{(j_i-j^{sa}-1) \quad (n_{sa}+j^{sa}-n_s-j_i)!}$$

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

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

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

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

$$\sum_{k=\;_il}^{} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \quad \sum_{(j^{sa}=j_{sa})}^{(\quad)} \quad \sum_{j_i=s}^{\boldsymbol{l_i}-\;_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \quad \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!}$$

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

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

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

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

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

$$\sum_{{}=j_{sa}^{ik}+1}^{\boldsymbol{l}_{sa}+j_{sa}^{b}-j_{sa}+1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{()}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{()}\sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

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

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

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

$$\sum_{k=\,_i l} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j\,\cdot\,j_{sa})}^{(\ )} \sum_{j_i=s}$$

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

$$\sum_{\cdots=n_{ik}+j_{\cdots}\cdot j_{sa}-\Bbbk_2\,(\cdots)}^{} \cdots j_i-\Bbbk_3)$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_{\cdots} \Bbbk_1 - \Bbbk_2 \cdots \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 \cdots \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdots + j_{sa}^{ik} \cdots - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \cdots \wedge$

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

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

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

$D \geq \cdots < n \wedge I = \Bbbk \cdots 0 \wedge$

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

$\boldsymbol{s}: \left\{ j_s^s \cdots, \Bbbk_1, j_{sa} \cdots 2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \cdots s + \Bbbk \wedge$

$\cdots z = \cdots \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{\,_i l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk \quad 1)!}{(j_{ik}-j_s-1 \quad j_s-n_{is} \quad j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_s \quad \Bbbk_2-1)!}{(j^{sa}-j_{ik}-1 \quad (n_{ik}+j \quad -n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\ _il}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \;\; \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

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

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

$$\frac{(\boldsymbol{l}_i + j_{sa} - l_{sa} - s)!}{(l_i - j_{sa} - l_{sa})! \cdot (j_i - s)!} \cdot$$

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

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

$$\sum_{{}_{ik}=j_{sa}^{ik}+1}^{j_{ik}-k+1} \;\; \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)} \;\; \sum_{j_i = j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \;\; \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \;\; \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \;\; \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

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

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j \ \ j_{sa})}^{(\ )} \sum_{j_i=s}$$

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

$$\sum_{=n_{ik}+j_{\ \ sa}-\mathbb{k}_2} \sum_{(\ \ \ j_i-\mathbb{k}_3)}^{(\ )}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_{\ \ } \ \mathbb{k}_1 - \mathbb{k}_2 \ \ \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2 \ \ \mathbb{k}_3)! \cdot (\boldsymbol{n} + 2 \ \ + j_{sa}^{ik} - \ \ - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

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

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

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

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

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

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

$\boldsymbol{s}: \{ j_s^s \ \ , \mathbb{k}_1, j_{sa} \ \ _2, j_{sa}, \mathbb{k}_3, j_{sa}^i \} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \ \ s + \mathbb{k} \wedge$

$\ \ z = \ \ \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$_{fz}S_{j_s \ , j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{\ _i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_i}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i\quad-1)}{(j_s-2)\quad(n_i-n_{is}\quad1)!} \cdot$$

$$\frac{(n_i-n_{ik}-\Bbbk_1\quad1)!}{(j_{ik}-j_s-1)\quad(n_i-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)\quad(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s\quad1)!}{(j_i-j^{sa}-1)\quad(n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

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

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

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

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

$$\sum_{k=\,_il}^{(\quad)} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{(\quad)} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - j_i)! \cdot (j_i - s)!} \cdot$$

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

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

$$\sum_{k= \; _i l} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j \;\; j_{sa})}^{(\;)} \sum_{j_i=s}$$

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

$$\sum_{\;=n_{ik}+j_{i\;\;sa}-\Bbbk_2 \; (\;\; j_i-\Bbbk_3)}^{(\;)}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i \;\; \Bbbk_1 - \Bbbk_2 \;\; \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 \;\; \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \;\; j \;\; + j_{sa}^{ik} \;\; - \;\; j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \quad \wedge$$

$$1 \leq j_s \leq j_{ik} - j_s^{ik} + 1 \wedge j_s + j_{sa}^{\;\;} \; 1 \leq j_{ik} \leq \quad^a + j_{sa}^{ik} - j_{sa} \wedge$$

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

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

$$D \geq \quad < n \wedge I = \Bbbk \quad 0 \wedge$$

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

$$\boldsymbol{s}: \left\{ j_s^s \quad ., \Bbbk_1, j_{sa} \quad _2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} \quad s + \Bbbk \wedge$$

$$\quad z = \quad \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s \;, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i l-1} \sum_{(j_s=2)}^{(l_{sa}-k-j_{sa}+2)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{i}}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_{s}-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk \quad 1)!}{(j_{ik}-j_s-1 \quad j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_s-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1 \quad (n_{ik}+j \quad -n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(\ _{sa}-n_s \quad 1)!}{(j_i-j^{sa}-1 \quad (n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

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

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

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

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

$$\sum_{k=\ _il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

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

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

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

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

$$\sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(l_{sa}-k-j_{sa}+2)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

$$\sum_{k=\ _il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j\ \ j_{sa})}^{(\ )} \sum_{j_i=s}$$

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

$$\sum_{\ =n_{ik}+j_{\ \ sa}-\mathbb{k}_2\ (\ \ j_i-\mathbb{k}_3)}^{(\ )}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_{\ }\ \mathbb{k}_1 - \mathbb{k}_2\ \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2\ \ \mathbb{k}_3)! \cdot (n + 2\ \ j_{\ } + j_{sa}^{ik} - \ \ - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

$D \geq n < n \wedge l_i \leq D + s - \ \ \wedge$

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

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

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

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

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

$s : \{ j_s^{\ } \ \ , \mathbb{k}_1, j_{sa} \ \ \ _2, j_{sa}, \mathbb{k}_3, j_{sa}^i \} \wedge$

$s \geq 6 \wedge s \ \ \ + \mathbb{k} \wedge$

$\ \ z = \ \ \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\ \ -j_i+1}^{n_{sa}+j^{sa}-j_i-\ }$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk\ \ -1)!}{(j_{ik}-j_s-1)!\ (\ +j_s-n_{is}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_s\ \ -\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\ (n_{ik}+\ \ -n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

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

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

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

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

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

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

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{\boldsymbol{l_i}-\ _i l+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

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

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

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

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

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

$$\sum_{?=j_s+j_{sa}^{ik}-1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)}\sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

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

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

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

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

$$\sum_{k=\,_i l} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j\quad j_{sa})}^{(\quad)} \sum_{j_i=s}$$

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

$$\sum_{=n_{ik}+j_{i}\quad sa-\Bbbk_2}^{(\quad)} \quad _{-j_i-\Bbbk_3})$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i \quad \Bbbk_1 - \Bbbk_2 \quad \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 \quad \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \quad j \quad + j_{sa}^{ik} \quad - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \quad \wedge$$

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

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

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

$$D \quad \quad < n \wedge I = \Bbbk \quad 0 \wedge$$

$$j_{sa} = j_{sa}^i \quad 1 \wedge j_{sa}^{ik} < j \quad - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \{j_s^s \quad \quad , \Bbbk_1, j_{sa} \quad \quad_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} \quad \quad + \Bbbk \wedge$$

$$\quad z = \quad \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s=2)}^{(l_s - k + 1)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\,(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\,(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

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

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

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

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

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

$$\sum_{k=\ _i\boldsymbol{l}}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}^{(\ )}\sum_{j_i=s}^{l_i-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

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

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \;\; \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{\ldots j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{n}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

$$\sum_{k=\,_i l}^{(\;)} \sum_{(j_s=1)}^{}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j\;\;\;j_{sa})}^{(\;)} \sum_{j_i=s}^{}$$

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

$$\sum_{=n_{ik}+j_{\;\;sa}-\mathbb{k}_2}^{(\;)} \sum_{(\;\;\;\;j_i - \mathbb{k}_3)}^{}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_{\;\;} \mathbb{k}_1 - \mathbb{k}_2 \;\; \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2 \;\; \mathbb{k}_3)! \cdot (n + 2 \;\; + j_{sa}^{ik} - \;\; - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

$D \geq n < n \wedge l_s \leq D - n \;\; \wedge$

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

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

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

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

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

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

$s: \{j_{sa}^s, \cdots, \;\; j_{sa}^{ik}, \cdots, \mathbb{k}_2, j_{sa}, \mathbb{k}_3, j_{sa}^i\} \wedge$

$\;\; \geq 6 \wedge \;\; s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$${}_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\;)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\,(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\,(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=1}^{\boldsymbol{l}-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

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

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

$$\frac{(\boldsymbol{l}_i+j_{sa}-\boldsymbol{l}_{sa}-s)!}{(j^{sa}+\boldsymbol{l}_i-j_i-\boldsymbol{l}_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

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

$$\sum_{k=\ _i\boldsymbol{l}}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}^{(\ )}\sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_i-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} \quad - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}}) \quad (j_i - s)!} \cdot$$

$$\frac{(\quad \boldsymbol{l_i})!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \quad j_i)!} -$$

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

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

$$\sum_{=\boldsymbol{n} + \Bbbk \ (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - \quad 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{}$$

$$\frac{(n_i + \quad j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

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

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

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

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

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

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

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

$$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i} \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)} \sum_{j_{ik} = j^{sa} + j_s - j_{ca}}^{(j_i + j_{sa} \cdots - j_{sa}^{ik} + 1} \sum_{(j^{sa} = \cdots + 1)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}$$

$$\sum_{n_i = \boldsymbol{n} + \cdots}^{n} \sum_{(n_{is} = \boldsymbol{n} + \cdots + s + 1)}^{(n_i - \cdots + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

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

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} - \Bbbk - j_s)}^{(n_i - j_s + 1)} \sum^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} + \Bbbk_3 - j^{sa})}^{(n_{ik} + j_{ik}^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \Bbbk_1 - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\,_il}\sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}^{(\;)}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{\boldsymbol{l_i}-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ldots-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{\ldots}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{\ldots j^{sa}\ldots-\Bbbk_3}$$

$$\frac{(\ldots-\Bbbk_1\ldots-1)!}{(\ldots-2)!\cdot(\ldots-n_{ik}\ldots+1)!}\cdot$$

$$\frac{(n_{\ldots}-n_{sa}-\ldots-1)!}{(\ldots-j_{ik}-1)!\cdot(\ldots+j_{ik}-\ldots_a-j^{sa}-\Bbbk_2)!}\cdot$$

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

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

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(\boldsymbol{l_i}+j_{sa}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i-s)!}\cdot$$

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \quad \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

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

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

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

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

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s \quad$

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

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{\quad} < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \{j_{sa}^s \quad \cdot, \Bbbk \quad, j_{sa}^{ik}, \cdots \quad , j_{sa}, \Bbbk_3, j_{sa}^i\}$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} = s \quad k \wedge$

$\Bbbk_z : \quad 3 \wedge \Bbbk = \Bbbk_1 \quad \Bbbk_2 + \Bbbk_3$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \quad \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

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

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

$$\frac{(\boldsymbol{l}_i+j_s-\boldsymbol{l}_{sa}-s)!}{(j^{sa}+\boldsymbol{l}_i-j_i-\boldsymbol{l}_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\,_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-\,_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

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

$$\sum_{n_i = n + \Bbbk \cdots}^{n} \sum_{(\cdots)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \cdots + j_s - j_{ik} - \Bbbk_1}^{}$$

$$\sum_{(n_{sa} = n_{ik} \cdots - j^{sa} - \Bbbk_2}^{(\ )} \sum_{\cdots = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{}$$

$$\frac{(n_i + 2 \cdot j_s + \cdots - j_{ik} - j_i - \cdots - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \cdots n - \Bbbk_1 - \cdots_2 - \Bbbk_3)!} \cdot$$

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

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

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

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

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

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

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

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

$$D \geq n < n \wedge I = \Bbbk > 0 \wedge$$

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

$$s : \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$$

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

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

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

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

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{= \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_i}^{+ j_s - j \quad \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} \quad - j^{sa} + 1)}^{- j^{sa} - \Bbbk_2} \sum^{+ j^{sa} - j_i - \Bbbk_3}_{n_s \quad - j_i + 1}$$

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

$$\frac{(n_{is} - n \quad - \Bbbk_1 - 1)!}{\quad - j_s \quad)! \cdot (\quad _s + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_i \quad - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk\quad 1)!}{(j_{ik}-j_s-1)\quad \cdots j_s-n\quad -j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n\quad \Bbbk_2-1)}{(j^{sa}-j_{ik}-1)\quad (n_{ik}+j\quad -n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!} \cdot$$

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

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

$$\frac{(\boldsymbol{l_i}+j_{sa}-l_{sa}-s)!}{(\boldsymbol{l_i}+j_{sa}-l_{sa})! \cdot (j_i-s)!} \cdot$$

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j^s_{sa})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-2\cdot j^s_{sa})!} \cdot$$

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

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

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

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

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

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

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

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

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

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i} \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{\Bbbk_z} S_{j_s, j_{ik}, j^{sa}} = \sum_{k=1}^{i^{l}-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\,)}$$

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

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} \quad j^{sa} - s)!} \cdot$$

$$\frac{(\quad \boldsymbol{l_i})!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i}) \quad j_i)!} +$$

$$\sum_{j_{ik}= \quad +j_{sa}^{ik}-j_{sa}}^{1} \sum_{(j^{sa}= \quad +j_{sa}-D-s)}^{(\;)} \sum_{j_i=j^{sa}+s-j_{sa}}^{(l_{ik}+j_{sa}- \quad _{sa}^{ik}+1)} \sum^{ \quad (\;-j_{sa}^{ik}+1)} \sum^{\boldsymbol{l_i}-k+1}$$

$$\sum_{ \quad \boldsymbol{n}+\Bbbk}^{(n_i-j \quad)} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\,_i l} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\quad)}^{(\quad)} \sum_{\quad=\,_i l+1}^{\quad=\,n-D}$$

$$\sum_{\quad=\,}^{n} \sum_{\quad=n+\quad}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{ik}+j_{\quad}}^{\quad sa - \Bbbk_2} \sum_{(n_{sa}\quad}^{(n_i - j_i - \Bbbk_3)}$$

$$\sum_{n_{sa}\quad+\Bbbk_3 - j^{sa}\quad} \sum_{(n_s=n-j_i+1)}$$

$$\frac{(n_i - \quad_{ik} - \Bbbk_1 - 1)!}{(\quad - 2)! \cdot (\quad - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{\quad} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

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

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

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\mathbb{k}}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3 - 2 \cdot j_s)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3)!} \cdot$$

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

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

$$\frac{(D - 1)!}{(D - j_i - \boldsymbol{n} - l_{ik} - \boldsymbol{n} - j_i)!} \cdot$$

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

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

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

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

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

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

$j_{sa} = j_{sa}^i - 1 \wedge j \ldots^k < j_{sa} \ldots \wedge j_{sa}^s \ldots j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}, \ldots, \mathbb{k}_1, j_{sa}^{ik}, \cdots, \ldots, j_{sa}, \mathbb{k}_3, j_{sa}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \ldots s + \mathbb{k} \wedge$

$\mathbb{k}_z: \ldots 3 \wedge \mathbb{k} = \ldots_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

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

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

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

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

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

$$\sum_{k=1}^{\boldsymbol{l}-1}\,_i \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \ )!} \cdot$$

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

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

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

$$\frac{(\boldsymbol{l_i} + \quad - \boldsymbol{l_{sa}} \quad}{(j^{sa} + \boldsymbol{l_i} \quad i - \boldsymbol{l_{sa}}) \quad (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

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

$$\sum_{k=\ _i\boldsymbol{l}}^{(\quad)} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i - s)!} \cdot$$

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

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

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

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{= \boldsymbol{n} + \mathbb{k} - j}^{j_s + } \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \mathbb{k}_1}^{}$$

$$\sum_{= n_{ik} + j_{ik}}^{(\ \ )} \sum_{- \mathbb{k}_2) \ n_s = n_{sa} + j^{sa} - j_i - \mathbb{k}_3}^{}$$

$$\frac{(n_i + 2 \cdot j_s + - j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(- \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3)!} \cdot$$

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

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

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

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

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

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

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

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

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

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

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s = \ldots - j_{sa}^{ik} + 1)}^{(\ \ )}
$$

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

$$
\sum_{n_i = \boldsymbol{n} + \ldots}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk \ldots + 1)}^{\ldots} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 \ldots - j_{ik} + 1}^{\ldots j_s - j_{ik} - \Bbbk_1}
$$

$$
\sum_{(n_{sa} = \boldsymbol{n} \ldots 3 - j^{sa} + 1)}^{+ j_{ik} - j \ldots} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}
$$

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

$$
\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} \ldots_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{({}^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot
$$

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

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

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

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

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

$$\sum_{k=1}^{_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

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

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n+\Bbbk_2-\ -j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-j\ \ )}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n-j_i+1}^{j^{sa}\ \ j_i-\Bbbk_3}$$

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

$$\frac{(\ -n_{ik}\ \ -1)!}{(\ _{ik}-j_s-1)!\ (\ _{is}+j_s\ \ _{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{s\ }-\Bbbk_2-1)!}{(\ -j_{ik}\ \ )!\cdot(n_{i\ }\ j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

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

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

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

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

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

$$\sum_{k=\ _il}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=l_i+n-D}^{l_i-\ _il+1}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)!}\cdot$$

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

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

$$\frac{(l_i+s-l_{sa}-s)!}{(l_i-l_{sa}-j_i-l_{sa})!\cdot(j_i-s)!}\cdot$$

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ \ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

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

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

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

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

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

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

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

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

$D \geq n < n \wedge I = \Bbbk > 0 \wedge$

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

$s : \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\},$

$s \geq 6 \wedge s = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

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

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

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = n + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

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

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l}_s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}) \cdots (j_i + j_{sa} - s)!} \cdot$$

$$\frac{(\quad - \boldsymbol{l_i})!}{\cdots - \boldsymbol{n} - \quad)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{i} \cdots \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik} \cdots \boldsymbol{n} + j_{sa}^{ik} \cdots j_{ik} + j_{sa} - j_{sa}^{ik})}^{\cdots - k + 1} \quad \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{\boldsymbol{n} + \Bbbk \, (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \quad \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \quad \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

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

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

$$\sum_{n_i=n+\Bbbk} \sum_{=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{+1)}$$

$$\sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

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

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

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}-\ \ -j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\ \ \ -\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\ \ -\Bbbk_3)!}\cdot$$

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

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

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

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

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

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

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

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

$D \geq\ \ < n \wedge I=\Bbbk >\ \ \wedge$

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

$\boldsymbol{s}:\big\{\ \ ,\ \Bbbk_1,j_{sa}^{ik},\cdots,\Bbbk_2,j_{sa},\Bbbk_3,j_{sa}^i\big\} \wedge$

$s \geq 6 \wedge \boldsymbol{s}=\ \ +\Bbbk \wedge$

$\ \ \wedge \Bbbk=\Bbbk_1+\Bbbk_2+\Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\ j_{ik},j^{sa},j_i}=\sum_{k=1}^{_i\boldsymbol{l}-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

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

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n+\Bbbk_2+\Bbbk_3-j_{\cdot}}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s\cdots-j_i+1}^{n_{sa}+j^{sa}-j_i-\cdots}$$

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

$$\frac{(n_{\cdot}-n_{ik}-\Bbbk_1\cdots-1)!}{(j_{ik}-j_s-1)\cdots(n_{\cdot}-n_{\cdot}\cdot-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{s\cdots}-\Bbbk_2-1)\cdots}{(j^{sa}-j_{ik}-1)\cdots(n_{ik}+j_{\cdot}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(\cdots_{a}-n_s\cdots-1)!}{(\cdot_i-j^{sa}-1)\cdots(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

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

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

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

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

$$\sum_{k=1}^{{}_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

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

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

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

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

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

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

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

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_i-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}})(j_i - s)!} \cdot$$

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

$$\sum_{\substack{l_s + j_{sa}^{ik} - k}}^{D + \boldsymbol{l_s} + s \ l_i} \sum \sum_{(j_s - j_{sa}^{ik} + 1)}$$

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

$$\sum_{= \boldsymbol{n} + \Bbbk}^{(n_i - 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \ j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

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

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

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

$D > \boldsymbol{n} < n$

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

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \le D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

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

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

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \ge 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$fz S_{j_s,\, j_{ik},\, j^{sa},\, j_i}^{l-1} \sum_{}^{} \sum_{(j_s=2)}^{(D-s)}$$

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

$$\sum_{n_i=\boldsymbol{n}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk_\ldots+1)}^{(n_i-\ldots-1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

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

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

$$\sum_{n_i = n + \Bbbk} \sum_{(n_{is}}^{(n_i - j_s + 1)} \sum_{n_{ik} = n + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - 1}$$

$$\sum_{(n \ \ n + \Bbbk_3 - j)}^{(n_{ik} + j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(- j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\,_i l} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\;)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{l_i-\,_i l+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\,-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{j^{sa}\,-\Bbbk_3}$$

$$\frac{(\;-\Bbbk_1\;-1)!}{(\;-2)!\cdot(\;-n_{ik}\;+1)!}\cdot$$

$$\frac{(n_{\;}-n_{sa}-\;-1)!}{(j\;-j_{ik}-1)!\cdot(\;+j_{ik}-\;_a-j^{sa}-\Bbbk_2)!}\cdot$$

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

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

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(\boldsymbol{l_i}+j_{sa}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i-s)!}\cdot$$

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

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

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s\ldots}}$$

$$\frac{(\boldsymbol{l_s} - k - \ldots)!}{(\boldsymbol{l_s} - j_s - k + 1)! \ldots {}_s - 2)!}$$

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

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

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

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

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

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + \ldots$

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

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

$\boldsymbol{s} : \{j_{sa}^{s} \ldots \cdot, \Bbbk \ldots, j_{sa}^{ik}, \ldots \ldots, j_{sa}, \Bbbk_3, j_{sa}^i\} \ldots$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} = s \ldots \Bbbk \wedge$

$\Bbbk_z : \ldots = 3 \wedge \Bbbk = \Bbbk_1 \ldots \Bbbk_2 + \Bbbk_3 \ldots$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{(\boldsymbol{l_i} + \boldsymbol{n} - D - s)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

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

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

$$\frac{(\boldsymbol{l}_i+j_{ik}-\boldsymbol{l}_{sa}-s)!}{(j^{sa}+\boldsymbol{l}_i-j_i-\boldsymbol{l}_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

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

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_s=\boldsymbol{l}_i+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l}_{ik}-k-j_{sa}^{ik}+2)}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=_il} \sum_{(j_s=1)}^{()}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i - s)!} \cdot$$

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

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

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-}^{(\ )} \quad$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(\ )}^{(n_i-j_s+1)} \sum_{n_{ik}=\ +j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}}^{(\ )} \sum_{=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + \ - j_{ik} - j_i - \ - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \ \ - \Bbbk_1 - \ _2 - \Bbbk_3)!} \cdot$$

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

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

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

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

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

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

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

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

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

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

$\boldsymbol{s}: \{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \} \wedge$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$
_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s=2)}^{l_i + \boldsymbol{n} - D - s}
$$

$$
\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1}^{(\quad)} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{l_i - k + 1}
$$

$$
\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum^{+ j_s - \quad \Bbbk_1}_{\quad = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - }
$$

$$
\sum_{(n_{sa} = \quad - j^{sa} + 1)}^{- j^{sa} - \Bbbk_2} \sum^{+ j^{sa} - j_i - \Bbbk_3}_{\quad j_i + 1}
$$

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

$$
\frac{(n_{is} - \quad - \Bbbk_1 - 1)!}{\quad - j_s \quad)! \cdot (\quad + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{\quad} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot
$$

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

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

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

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

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\cdots-j_i+1}^{n_{sa}+j^{sa}-j_i-\cdots}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk \cdots 1)!}{(j_{ik}-j_s-1) \cdots j_s-n \cdots -j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_s\cdots-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)\cdots(n_{ik}+j\cdots-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\ _il} \sum_{(j_s=1)}^{()}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_?)!}$$

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

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

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

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

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

$$\sum_{j_?=?_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

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

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

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

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

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

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

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

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

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

$\boldsymbol{s} : \{j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, \ldots, j_i} = \sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\;)}$$

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

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{\boldsymbol{l}} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{(j_s = j_{ik} - j_{sa}^{ik} + \ )}$$

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

$$\sum_{n_i = \ \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - \ + 1)}^{\ - j_i + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{\ _{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{\ _{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\,_il}\sum_{(j_s=\,)}$$

$$\sum_{j_{ik}=j_s^{ik}}\sum_{(j^{sa}=j_i+j_{sa})}\sum_{=s}^{j_i-\,_il+1}$$

$$\sum_{=\boldsymbol{n}+}^{n}\sum_{=\boldsymbol{n}+\Bbbk}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\,\Bbbk_3-j^{sa}+}^{n_{ik}+j_{ik}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j\quad j_i-\Bbbk_3)}$$

$$\frac{(n_i - \quad_{ik} - \Bbbk_1 - 1)!}{(j_{ik}\quad 2)! \cdot (\quad - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_i \quad 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

$$\sum_{k=1}^{\,_il-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)}\sum_{j_i=s+1}^{\boldsymbol{l_{ik}}+j_{sa}^{ik}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

$$\frac{-k-1)!}{(\boldsymbol{l}_s - j_s - \quad 1)! \cdot (j_s - \quad)} \cdot$$

$$\frac{}{(D \quad \boldsymbol{n} - \boldsymbol{l_i} \quad - j_i)!} -$$

$$\sum_{k=\;_i l}^{(\quad)} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{(\quad)} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{sa}^{s})!} \cdot$$

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

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

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

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

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

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

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

$$\boldsymbol{s} : \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i} \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j} = \sum_{\substack{k=1 \\ (j_s = j_{ik} - j_s + 1)}}^{l-1} \sum_{\substack{j_{ik} = j_s \\ }}^{j^{sa} - j_{ik} - j_{sa}} \sum_{\substack{(j^{sa} = j_i) \\ }} \sum_{\substack{ = s+1}}^{l_s + s - k}
$$

$$
\sum_{\substack{= \boldsymbol{n} + \Bbbk \ (n_{is} = \boldsymbol{n} + \Bbbk - j + 1)}}^{n} \sum \sum_{\substack{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}}^{n_{is} + j_s - j_{ik} - \Bbbk_1}
$$

$$
\sum_{\substack{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}}^{(n_{ik} + \; - j^{sa} - \Bbbk_2)} \sum_{\substack{n_s = \boldsymbol{n} - j_i + 1}}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}
$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+\ldots)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-\ldots+1}^{n_{is}+j_s-\ldots-\Bbbk_1}$$

$$\sum_{(n_{sa}=\ldots+\Bbbk_3-j^{sa}+1)}^{\ldots+j_{ik}-j^{sa}-\ldots} \sum_{}^{\ldots n_{sa}+j^{sa}-j_i-\Bbbk_3} \sum_{}^{\ldots_{j_i+1}}$$

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

$$\frac{(n_{is} - n \ldots - \Bbbk_1 - 1)!}{(\ldots_{ik} - j_s \ldots 1)! \cdot (n \ldots + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_i \ldots - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

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

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

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

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

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

$$\sum_{k={_i}\boldsymbol{l}}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=s}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik})}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\ \ j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk\ )}$$

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

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

$$\sum_{k=1}^{\ _il^{-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

$$\sum_{k = \,_i l \,(j_s}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} \,(j^{sa} \ sa)}^{(\ )} \sum_{j_i = s}$$

$$\sum_{=\boldsymbol{n} + \Bbbk \,(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{n} \sum$$

$$\sum_{sa = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2 \,(n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3)}^{(\ )} \sum$$

$$\frac{(n_i + 2 \cdot j_s \quad^{ik} - \quad - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \quad \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 \quad)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

$\geq \boldsymbol{n} < \quad \wedge \boldsymbol{l}_i \leq D + \quad - \boldsymbol{n} \wedge$

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

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

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

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

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

$\boldsymbol{s} \colon \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

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

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

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

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j\ \ + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \ \ }^{n_{is} + j\ \ - \Bbbk_1}$$

$$\sum_{(\ \ \ )}^{(n_{ik} + j_{ik} - j\ \ )} \sum_{\ }^{n_{sa} + j^{sa} - j}$$

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

$$\frac{(n_{is} - \ _k - \Bbbk_1 - 1)!}{(j_{ik}\ \ - 1)! \cdot (n\ + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(\ \ _a - \Bbbk_2 - 1)!}{(j^{sa} - \ - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s \, -j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk \quad 1)!}{(j_{ik}-j_s-1 \quad j_s-n \quad -j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n \quad -\Bbbk_2-1)}{(j^{sa}-j_{ik}-1) \quad (n_{ik}+j \quad -n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

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

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

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

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

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

$$\sum_{k=\,_i l}^{} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(l_{sa}-\,_i l+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

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

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

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

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

$$\sum_{k=\ _il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j\ \ j_{sa})}^{(\ )} \sum_{j_i=s}$$

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

$$\sum_{\ =n_{ik}+j_{\ \ sa}-\Bbbk_2\ (\ \ \ \ \ j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_{\ \ } \Bbbk_1 - \Bbbk_2\ \ \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - n - \Bbbk_1 - \Bbbk_2\ \ \Bbbk_3)! \cdot (n + 2\ j_{\ \ } + j_{sa}^{ik} -\ \ - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

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

$$D \geq n < n \wedge l_i \leq D + s -\ \ \ \wedge$$

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

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

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

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

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

$$s: \{j_s^s\ \ ., \Bbbk_1, j_{sa\ \ \ \ } \ _2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s\ \ \ s + \Bbbk \wedge$$

$$\ \ z =\ \ \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s\ ,j_{ik},j^{sa},j_i} = \sum_{k=1}^{\ _il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

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

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\,(n_{is}-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\,(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

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

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

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

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

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

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_s + j^{sa} - n_s - j_i)!} \cdot$$

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

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

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

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

$$\sum_{k=\ _i\boldsymbol{l}}^{()} \sum_{(j_s=1)}^{}$$

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

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

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

$$\sum_{k} \sum^{(\;)}_{j_{sa}^{ik}+1}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_s} \sum_{j^{sa} = j_{sa}+1)}^{(\quad a - k)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{= \boldsymbol{n} + \Bbbk} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - \quad 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\;)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \quad j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

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

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

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

$$\sum_{k = \; i \boldsymbol{l}} \sum_{(j_s = 1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1\ldots)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\ldots-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \ldots 2\cdot j_s\ldots\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + \ldots - j_{ik} - j_i \ldots j_{sa}^s\right)!} \cdot$$

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

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

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

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

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

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

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} < j_{sa}^{ik} - 1 \ldots$

$\boldsymbol{s}: \{j_{sa}^s, \ldots, \Bbbk\ldots j_{sa}^{ik}, \ldots, \ldots j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \ldots \wedge$

$\Bbbk_z: z\ldots 3 \wedge \Bbbk = \Bbbk_1 + \ldots_2 + \Bbbk_3 \Rightarrow$

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

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

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

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

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_s + j^{sa} - n_s - j_i)!} \cdot$$

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

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

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

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

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}^{}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\boldsymbol{l}_{sa}-\ _i\boldsymbol{l}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

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

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

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

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

$$\sum \sum_{(j^{ik}_{sa}+1)}$$

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

$$\sum_{=\boldsymbol{n}+\Bbbk}^{(n_i - \ldots 1)} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + \ldots j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j^s_{sa})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - 2 \cdot j^s_{sa})!} \cdot$$

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

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

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

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

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+\ -j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \ +2\cdot j_s \right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!\cdot\left(\boldsymbol{n} + 2\cdot j_s + j - j_{ik} - j_i + j_{sa}^{s}\right)!}\cdot$$

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

$$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_i} \le D + s - \boldsymbol{n} \wedge$$

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

$$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + \ - j_{sa} \le j_i \le \ \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{i\ }\ j_{sa} > \ \wedge \boldsymbol{l_i} + j\ - s = \ _{a} \wedge$$

$$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^{i} - 1 \wedge j^{ik} < j_{sa} - 1 \wedge j_{s\ } < j_{sa}^{ik} - 1$$

$$\boldsymbol{s}: \left\{ j_{sa}^{s}\ ,\cdot , \ \ j_{sa}^{ik}, \cdots, \ \ j_{sa}, \Bbbk_3, j_{sa}^{i} \right\} \wedge$$

$$s \ge 6 \wedge \boldsymbol{s} = s + \ \wedge$$

$$\Bbbk_z: z\ \ 3 \wedge \Bbbk = \Bbbk_1 + \ _2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s\ ,j_{ik},j^{sa},j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l}_{sa}+j_{sa}^{ik}-\boldsymbol{l}_{ik}-j_{sa})!}{(k+\boldsymbol{l}_{sa}-j^{sa}-\boldsymbol{l}_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{(\boldsymbol{l}_{sa}-\ _i l+1)}\sum_{(j^{sa}=j_{sa})}^{}\sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} +)} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} -)!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\quad - j_{sa})!} \cdot$$

$$\frac{(\quad)!}{(D + \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} -$$

$$\sum \quad \sum_{j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{i}} \sum_{(j^{sa} \quad {}_{k}+j_{sa}-j_{sa}^{ik})} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{(n_i-\quad 1)} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(\quad \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k= {}_i\boldsymbol{l}}^{(\quad)} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1, \quad)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{\quad} \sum_{(n_s=n_{sa}+\quad-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\quad 2\cdot j_s\quad\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j\quad-j_{ik}-j_i\quad j_{sa}^s\right)!}\cdot$$

$$\frac{(\quad\quad\quad-\boldsymbol{l_i})!}{(\quad\quad-\boldsymbol{n}\quad)!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D+s-\boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik}-j_{sa}^{ik}+1 \wedge j_s+j_{sa}^{ik}-1 \leq j_{ik} \leq j^{sa}+j_{s}\quad j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq j_i+j_{sa}-s \wedge j^{sa}\quad-j_{sa} \leq j_i \leq \quad \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}+j^{ik}\quad j_{sa} > \quad \wedge \boldsymbol{l_i}+\quad-s = \quad_{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i-1 \wedge j^{ik} < j_{sa}-1 \wedge j_{s}\quad< j_{sa}^{ik}-1$

$\boldsymbol{s}: \left\{j_{sa}^{s}\quad, \Bbbk\quad j^{ik}, \cdots, \quad j_{sa}, \Bbbk_3, j_{sa}^i\right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s+\quad \wedge$

$\Bbbk_z: z\quad 3 \wedge \Bbbk = \Bbbk_1+\quad_2+\Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{{}_il-1} \sum_{(j_s=2)}^{\left(l_{ik}-k-j_{sa}^{ik}+2\right)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\quad} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\quad}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_s + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa}^{ik} - \boldsymbol{l}_{ik} - j_{sa})!}{(\boldsymbol{l}_{sa} - j^{sa} - \boldsymbol{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\boldsymbol{l}_{sa}-\ _i\boldsymbol{l}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \qquad)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \qquad a\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (\qquad {sa} - j_{sa})!} \cdot$$

$$\frac{(\qquad)!}{(D + j \qquad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\qquad j_i)!} -$$

$$\sum \sum \sum_{(\qquad =2)}^{(l_{ik} - k - j_{sa}^{ik} + \quad)}$$

$$\sum_{=j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa} \qquad k + j_{sa} - j_{sa}^{ik})} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{= \boldsymbol{n} + \Bbbk} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - \quad 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \quad j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \ _i \boldsymbol{l}} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1 \ldots)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\ldots-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \ldots 2\cdot j_s \ldots\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + \ldots - j_{ik} - j_i \ldots j_{sa}^s\right)!} \cdot$$

$$\frac{\ldots - \boldsymbol{l_i})!}{\ldots - \boldsymbol{n} \ldots)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s} \ldots j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + \ldots - j_{sa} \leq j_i \leq \ldots \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik} \ldots j_{sa} \ldots \wedge \boldsymbol{l_i} + \ldots - s = \ldots_{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^{i} - 1 \wedge j^{ik} < j_{sa} - 1 \wedge j_{sa} \ldots j_{sa}^{ik} - 1 \ldots$

$\boldsymbol{s}: \{j_{sa}^{s} \ldots, \Bbbk \ldots j_{sa}^{ik}, \cdots, \ldots j_{sa}, \Bbbk_3, j_{sa}^{i}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \ldots \wedge$

$\Bbbk_z : z \ldots 3 \wedge \Bbbk = \Bbbk_1 + \ldots_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(+j-1)\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}^{(\boldsymbol{l_{sa}}-\ _il+1)}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} + \dots)} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \dots)!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\dots - j_{sa})!} \cdot$$

$$\frac{(\dots)!}{(D + j_i \dots \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\dots j_i)!} -$$

$$\sum \sum_{(j_s=2)}^{{}_i\boldsymbol{l}-1\,(l_s-k+\dots)}$$

$$\sum_{=j_s+j_{sa}^{ik}-1} \sum^{(j^{sa}\dots k+j_{sa}-j_{sa}^{ik})} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{=\boldsymbol{n}+\Bbbk} \sum^{(n_i-\dots 1)}_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + \dots j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1 \cdots)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2 \ (n_s=n_{sa}+\cdots-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \cdots 2\cdot j_s \cdots\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_{\cdots} - j_{ik} - j_i \cdots j_{sa}^s\right)!} \cdot$$

$$\frac{\cdots - \boldsymbol{l_i})!}{(\cdots - \boldsymbol{n} - \cdots)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s\cdots} j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + \cdots - j_{sa} \leq j_i \leq \cdots \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik} \cdots j_{sa} \cdots \wedge \boldsymbol{l_i} + \cdots - s = \cdots_a \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + \cdots - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = \cdots_a - \cdots \wedge j_{sa}^{ik} < \cdots - 1 \wedge j_{sa}^s < j_{\cdots} \cdots \wedge$

$\boldsymbol{s}: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}\cdots, \Bbbk_2, j_{s\cdots}\Bbbk_3, j_s^i \cdots \}$

$s \geq \cdots \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \cdots \Bbbk = \Bbbk_1 + \Bbbk_\cdots + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(k + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=\boldsymbol{l_{ik}}+s-k-j_{sa}^{ik}+2}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s \quad)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\quad k - 1)}{(\boldsymbol{l_s} - \quad - k + \quad - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \quad \right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} \quad (j^{sa} + j_s \quad - j_{ik} - j_{sa})!} \quad$$

$$\frac{(D - \quad)}{(D + j_i \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \,_i \boldsymbol{l}} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\quad)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - \,_i\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \quad \boldsymbol{l_{ik}}+ \ldots -j_{sa}^{ik}+1$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum^{(n_i-j_s+1)} \sum$$

$$\sum_{(n_{sa}=n_{ik}+ \ldots j^{sa}-\Bbbk_2)}^{(\ )} \sum^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + \ldots - j_{ik} - j_i - \ldots - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i + \ldots - \Bbbk_1 \ldots \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$\ldots \geq \boldsymbol{n} < \ldots \wedge \boldsymbol{l_s} \leq D - \ldots + 1 \wedge$

$1 \leq j \ldots \leq j_{ik} - j_s \ldots \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - \ldots^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\ldots - j_{sa}^{ik} \ldots + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$

$$s \geq 6 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$$

$$_{fz}S_{j_s,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{l_i+\boldsymbol{n}-D}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{=\boldsymbol{n}+\mathbb{k}_2+\mathbb{k}_3-j_{ik}}^{+j_s-j_i-\mathbb{k}_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\ -j^{sa}+1)}^{+j^{sa}-\mathbb{k}_2} \sum_{n_s-\ j_i+1}^{+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n\ - \mathbb{k}_1 - 1)!}{(\ -j_s + \ )! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{\ \ }}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_{s\ }-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_{i\quad}-1)}{(j_s-2)\ (n_i-n_{is\quad}-1)!} \cdot$$

$$\frac{(n_{\quad}-n_{ik}-\Bbbk_{\ }-1)!}{(j_{ik}-j_s-1)\ (\ n_{\quad}-n_{\quad}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(\ n_{ik}-n_{s\quad}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)\ (n_{ik}+j_{\quad}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(\ _{sa}-n_s-1)!}{(j_i-j^{sa}-1)\ (n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(\ _{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})! \cdot \left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=\ _il}^{} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\ \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-\ldots)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-\ldots)!}\cdot$$

$$\frac{(\ldots+j^{ik}_{sa}-\boldsymbol{l}_{ik}-j_{sa})!}{(\boldsymbol{l}_{sa}+j_{sa}-\ldots)!\cdot(\ldots^{sa}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(\ldots+j_i-\ldots\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{\ldots\boldsymbol{l}_s+s-\boldsymbol{n}-\boldsymbol{l}_i}\ \sum_{(j_s=j_{ik}-j^{ik}_{sa}+1)}^{(\ )}$$

$$\sum_{ik=j^{sa}+j^{ik}_{sa}-j_{sa}}\ \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\ \sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\ \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )}\ \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j^s_{sa})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-2\cdot j^s_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$\kappa_z S_{j_s, j_{ik}, j^{sa}} = \sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{j_{sa}^{ik} + 1}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s)}^{(\boldsymbol{l_{ik}} + j_{sa} - k - j_{sa}^{ik} + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s \quad)} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - \quad - j_{sa}\right)!} \cdot$$

$$\frac{(\quad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} +$$

$$\sum \left(\;\right) \\ j_{sa}^{ik}+1)$$

$$\sum_{\substack{\boldsymbol{l_{ik}}-k+1 }}^{} \sum_{j^{sa}=\boldsymbol{l_{ik}} \quad -k-j_{sa}^{ik}+2)}^{(\boldsymbol{l_i}+j_{sa}-k \quad 1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{\boldsymbol{n} \quad +\Bbbk}^{\boldsymbol{n}} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j \quad)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n} \ldots)}^{\left(\boldsymbol{l_i}+j_{sa}- {}_il-s+1\right)} \ldots -j_{sa}$$

$$\sum_{=\boldsymbol{n}+\ldots}^{n} \sum_{}^{(n_i - j_{ik} - \mathbb{k}_1+1)} {}_{\ldots \boldsymbol{n}+\mathbb{k} \ldots \mathbb{k}_3 - j_{ik}+1)}$$

$$n_{ik}+j_{ik}\ldots{}^{sa}-\mathbb{k}_2 \quad (n_{sa}+j\ldots j_i-\mathbb{k}_3)$$

$$\sum_{n_{sa}\ldots \mathbb{k}_3 - j^{sa}+\ldots} \sum_{(n_s=\boldsymbol{n}-j_i+1)}$$

$$\frac{(n_i \ldots {}_{ik} - \mathbb{k}_1 - 1)!}{(j_{i} \ldots 2)! \cdot (\ldots - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_i \ldots - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{\left(\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_i - j_{sa}^{s})!} \cdot$$

$$\frac{-k-1)!}{(\boldsymbol{l}_s - j_s - 1)! \cdot (j_s - 2)} \cdot$$

$$\frac{(D - 1)!}{(D - j_i - \boldsymbol{n} - \boldsymbol{l}_{ik} - \boldsymbol{n} - j_i)!}$$

$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l}_s \le D - \boldsymbol{n} + 1 \wedge$

$1 \le j_s \le j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + \ldots - s \wedge \ldots + s - \ldots \le j_i < \ldots \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s - j_{sa} > \boldsymbol{l}_{ik} \wedge \ldots + j_{sa} - s = \boldsymbol{l}_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l}_i \le D + \boldsymbol{l}_s + s - \ldots 1 \wedge$

$D \ge \ldots < n \wedge I = \Bbbk \ldots 0 \wedge$

$j_{sa} = j_{sa}^{i} - 1 \wedge \ldots^{ik} < j_{sa} \ldots \wedge j_{sa}^{s} \ldots j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{s} \ldots, \Bbbk_1, j_{sa}^{ik}, \cdots, \ldots j_{sa}, \Bbbk_3, j_{sa}\} \wedge$

$s \ge 6 \wedge \boldsymbol{s} \ldots s + \Bbbk \wedge$

$\Bbbk_z: \ldots 3 \wedge \Bbbk = \ldots + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l}_i + \boldsymbol{n} + j_{sa} - D - s)}^{(\boldsymbol{l}_s + j_{sa} - k)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} + j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_i}+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - }\cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!}$$

$$\frac{\cdots - 1)!}{(n_s + \cdots - \boldsymbol{n} - \cdots - j_i)!} \cdot$$

$$\frac{(\cdots k - 1)!}{(j_s - k \cdots)! \cdot (j_s - 2)!}$$

$$\cdot \frac{(\boldsymbol{l_{sa}} + j_{sa} - \boldsymbol{l_{ik}} - j_{sa})}{(j_{ik} + \boldsymbol{l_{sa}} - j^{\cdots} - \boldsymbol{l_{ik}})! \cdot (\cdots^a + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D \cdots \boldsymbol{l_i})!}{(D + \cdots - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {}_i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s)}^{\left(\boldsymbol{l_i} + j_{sa} - {}_i\boldsymbol{l} - s + 1\right)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum^{(l_s + s - k)} \sum_{j_i = j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{=\boldsymbol{n}+\Bbbk-j_s} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(=n_{ik}+j_{ik}-\Bbbk_2)} \sum_{n_s = n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \quad \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \mathbb{k}_1, j_{sa}^{ik}, \cdots, \mathbb{k}_2, j_{sa}, \mathbb{k}_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$$

$$_{fz}S_{j_s,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = -j_{sa}^{ik}+1)}^{()}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_i + n + j_{sa}^{ik} - D - s - 1} \sum_{(j^{sa}=l_i+n+j_{sa}-D-s)}^{(l_i+j_{sa}-k-)} \sum_{j_i = j^{sa}+s}$$

$$\sum_{n_i = \boldsymbol{n}+}^{n} \sum_{(n_{is}=n+\mathbb{k}+1)} \sum_{n_{ik}=n+\mathbb{k}_2}^{-j_{ik}+1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}_3-j^{sa}+1)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} _s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_i}+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1} {}_{-j_{ik}+1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+}^{+j^{s}\ \ _i-\Bbbk_3}$$

$$\frac{(\ -n_{is}\ \ 1)!}{(j_s\ \ 2)!\cdot(n_i\ \ _s+1)!}\cdot$$

$$\frac{(\ -n_{ik}\ \ \Bbbk_1-1)!}{(\ _{ik}-j_s-1)!\cdot(n_{is}+j_s\ \ _{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{s\ }\ \Bbbk_2-1)!}{(\ -j_{ik}\ \ )!\cdot(n_{i\ }\ j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(\ -j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\quad)} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\left(\boldsymbol{l_i}+j_{sa}-\ _i\boldsymbol{l}-s+1\right)} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-S)}^{} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}\ldots-j^{s}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}\ldots-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}\ldots j^{sa}-n_s-\ldots)!}\cdot$$

$$\frac{(\ldots)!}{(n_s\ldots j_i-\boldsymbol{n}\ldots-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{s}_{sa}\ldots\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j^{t}_{sa}\ldots j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D\ldots_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j^{ik}_{sa}+1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j^s_{sa})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-2\cdot j^s_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} \quad 1 \wedge$

$\boldsymbol{s}{:}\{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\}$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z{:}z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{n + -D - s - 1} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s)}^{(\boldsymbol{l_i} + j_{sa} - k - s + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - \quad)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - \quad)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \quad)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\quad _{sa} + j_{sa}^{ik} - \quad _{sa})!} \cdot$$

$$\frac{(\quad \boldsymbol{l_i})!}{(\quad - \boldsymbol{n} - \quad)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum \quad \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{{}_{i}\boldsymbol{l} - 1}$$

$$\sum_{j_{ik} = \quad + j_{sa}^{ik} - D} \sum_{(\quad = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\boldsymbol{l_i} + \quad - k - s + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l_s} \quad {}^{ik} - k}$$

$$\sum_{\quad = \boldsymbol{n} + \Bbbk} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - }$$

$$\sum_{k=} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{+j_{sa}-D-}^{\left(\boldsymbol{l_i}+j_{sa}-\ -s+1\right)} \sum_{=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk\ (}^{(\ +1)} \sum_{=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}$$

$$\sum_{n_{ik}+}^{j^{sa}-\Bbbk_2} \sum_{\Bbbk_3-j^{sa}+1}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)} \sum_{(n_s=\boldsymbol{n}-j_i+1)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{\ _{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{s}\ -j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=l_i+n+j_{sa}^{ik}-D-s}^{l_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2 \quad \cdot j_{sa}^{s})!}{(n_i-n-\Bbbk_1-\Bbbk_3)!}\cdot$$

$$\frac{}{(n+2 \quad ^{ik}-j_{ik} \quad -2\cdot j_{sa}^{s})!}$$

$$\frac{(l_s-k}{(l_s-j_s \quad k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(D-l_i)!}{(D \quad j_i-n-l_i)!\cdot(n-j_i)!}$$

$D \geq n < n \wedge l_s \leq D-n \quad \wedge$

$1 \leq j_s \leq j_{ik}-j_{sa}^{ik}+1 \wedge j_s+ \quad ^{ik}-1 \leq j_{ik} \leq \quad ^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq \quad ^{a} \leq j_i+j_{sa}- \quad j^{sa}+ \quad -j_{sa} \leq j_i \leq n \wedge$

$l \quad -j_{sa}^{ik}+ \quad l_s \wedge l_{sa} \quad j_{sa}^{ik}-j_{sa} > l_{ik} \wedge l_i+j_{sa}-s = l_{sa} \wedge$

$D+s-n < l_i \leq \quad +l_s+ \quad n \quad 1 \wedge$

$D \geq n \quad n \wedge I = \Bbbk > \quad \wedge$

$j_{sa} = j_{sa}^{i}- \quad \wedge j_{sa}^{ik} < j \quad -1 \wedge j_{sa}^{s} < j_{sa}^{ik}-1 \wedge$

$s: \{ \quad , \quad \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i} \} \wedge$

$s \geq 6 \wedge s = \quad +\Bbbk \wedge$

$\Bbbk_2 \quad \wedge \Bbbk = \Bbbk_1+\Bbbk_2+\Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i l-1} \sum_{(j_s=2)}^{(l_i+n-D-s)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(l_i+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s \ -j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i \qquad -1)}{(j_s-2 \quad (n_i-n_{is} \quad +1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk \quad 1)!}{(j_{ik}-j_s-1 \quad +j_s-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_s-\Bbbk_2-1)}{(j^{sa}-j_{ik}-1)(n_{ik}+j_s-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)(n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}+2)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_i+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (\quad + j^{sa} - n_s \quad _i)!} \cdot$$

$$\frac{(n_s \quad 1)!}{(\quad + j_i \quad) \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s \quad k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa}^{ik} \quad \boldsymbol{l}_{ik} - j_{sa})!}{(\quad + \boldsymbol{l}_{sa} \quad j^{sa} - \boldsymbol{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}-D-s)}^{\left(\boldsymbol{l}_i+j_{sa}-_i\boldsymbol{l}-s+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdots)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \cdots_a)!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\cdots_a - j_{sa})!} \cdot$$

$$\frac{(\cdots)!}{(D + j \cdots \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\cdots j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n} \cdots} \sum_{\cdots (D-s+1)}^{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}+2)}$$

$$\sum_{=j_s+j_{sa}^{ik}-1}^{} \sum_{(j^{s} \cdots_k + j_{sa} - j_{sa}^{ik})}^{} \sum_{j_i = j^{sa}+s-j_{sa}}^{}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{(n_i - \cdots 1)} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ \ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}^{}$$

$$\frac{(n_i + \cdots j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} \sum_{()=1}^{(l-)} \sum_{(j_s=2)}^{(D-s)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\;} \sum_{(\cdots^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+\cdots-D-s)}^{(j_{sa}-\cdots)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\cdots}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk\cdots+1)}^{(n_i-\cdots-1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{\cdots_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s = \boldsymbol{l_i} + \boldsymbol{n} - D - s + 1)}^{(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\boldsymbol{l_i} + j_{sa} - k - s + 1)} \sum^{\cdot sa \cdots j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} - \cdots \Bbbk - j_s)}^{(n_i - j_s + 1)} \sum_{= \boldsymbol{n} + \cdots \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} \cdots + \Bbbk_3 - j^{sa})}^{(n_{ik} + j \cdots {}^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} \cdots j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - \ )! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \ - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j \cdots {}_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _il}^{(\ )}\sum_{(j_s=1)}\sum_{j_{ik}=j_{sa}^{ik}}$$

$$\sum_{(j^{sa}=l_i+n+j_{sa}-D-s)}^{(l_i+j_{sa}-\ _il-s+1)}\sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=n+\Bbbk\ (n_{ik}=n+\Bbbk_2+}^{n}\sum^{(n_i-j_{ik}-\Bbbk_1+1)}-j_{ik}+1)$$

$$\sum_{n_{sa}=n+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=n-j_i+1)}^{j^{sa}-\Bbbk_3)}$$

$$\frac{(\ \ -\Bbbk_1\ \ 1)!}{(\ -2)!\cdot(\ -n_{ik}\ \ _1+1)!}\cdot$$

$$\frac{(n_{\ }-n_{sa}-\ -1)!}{(j\ -j_{ik}-1)!\cdot(\ _a-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n\ -n_s-1)!}{(l\ ^{sa}-1)\ (n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(l_{sa}+j_{sa}^{ik}-j^{sa}-l_{ik})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}-$$

$$\sum_{k=1}^{D+l_s+s-n-l_i}\sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk\ (n_{is}=n+\Bbbk-j_s+1)\ n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{n}\sum^{(n_i-j_s+1)}\sum$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s}^{})!}$$

$$\frac{(\boldsymbol{l_s} - k -)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (_s - 2)!}$$

$$\frac{(D -)}{(D + j_{} \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} _i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j + j_{sa}^{ik} - \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} - \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} l_i + j_{sa} - s = \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \{j_{sa}^s , \mathbb{k} j_{sa}^{ik}, \cdots , j_{sa}, \mathbb{k}_3, j_{sa}^i\}$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} = s k \wedge$

$\mathbb{k}_z: 3 \wedge \mathbb{k} = \mathbb{k}_1 \mathbb{k}_2 + \mathbb{k}_3$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\quad)} \sum_{j_i = \boldsymbol{l_{sa}} + \boldsymbol{n} + s - D - j_{sa}}^{\boldsymbol{l_{ik}} + s - k - j_{sa}^{ik} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{is} = \boldsymbol{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \mathbb{k}_2 + \mathbb{k}_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \mathbb{k}_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j^{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)}\sum_{j_i=\boldsymbol{l_{ik}}+s-k-j_{sa}^{ik}+2}^{\boldsymbol{l_{sa}}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - \ )!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\ k - 1)!}{(\boldsymbol{l_s} - \ - k + \ - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \ \right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} \ )! \cdot (j^{sa} + j_{ \ } - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_{i\ }})!}{(D + j_{i\ } - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \ _i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{\ k = j_{sa}^{ik}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\ )} \sum_{j_i = \boldsymbol{l_{sa}} + \boldsymbol{n} + s - D - j_{sa}}^{\boldsymbol{l_{sa}} + s - \ _i\boldsymbol{l} - j_{sa} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\ )} \sum_{j_i = l_{sa} \cdots - j_{sa}}^{l_{ik} + s - j_{sa}^{ik}+1}$$

$$\sum_{n_i = n + \Bbbk} \sum_{(n_{is} \cdots + \Bbbk \cdots)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n \cdots j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + \cdots j^{sa} - \Bbbk_2)}^{(\ )} \sum_{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{s} \cdots - j_{ik} - j_i - \cdots - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \cdots - \Bbbk_1 \cdots \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\geq n < \cdots \wedge l_s \leq D - \cdots + 1 \wedge$$

$$1 \leq j \cdots \leq j_{ik} - j_s \cdots \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - \cdots^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$$

$$\cdots - j_{s\cdots}^{ik} \cdots 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D \geq n < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

140 $\qquad D > \boldsymbol{n} < n$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_i l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=l_{sa}+n-D-j_{sa}}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}}^{+j_s-j_i-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\ldots-j^{sa}+1)}^{+j^{sa}-\Bbbk_2} \sum_{n_s=\ldots-j_i+1}^{+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - \ldots - \Bbbk_1 - 1)!}{(\ldots - j_s + \ldots)! \cdot (\ldots + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{\ldots} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{_i l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_s+j_{sa}^{ik}-k}\ \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\ \sum_{j_i=l_s+s-k+1}^{l_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\ \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{\ }}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\ \sum_{n_{s\ }-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i\ \ -1)}{(j_s-2\ )\ (n_i-n_{is}\ \ -1)!}\cdot$$

$$\frac{(n_{\ }-n_{ik}-\Bbbk_{\ \ }1)!}{(j_{ik}-j_s-1\ )\ (n_{\ }-n_{\ }-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{s\ }-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1\ )\ (n_{ik}+j_{\ }-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(\ _{\ }-n_s\ \ 1)!}{(j_i-j^{sa}-1\ )\ (n_{sa}+j^{sa}-n_s-j_i)!}$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _i\boldsymbol{l}}\ \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\ \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\ \sum_{j_i=\boldsymbol{l_{sa}}+\boldsymbol{n}+s-D-j_{sa}}^{l_{sa}+s-\ _i\boldsymbol{l}-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s -)}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(+ j_{sa}^{ik} - \boldsymbol{l}_{ik} - j_{sa})!}{(\boldsymbol{l}_{sa} + j_{sa} - j^{sa} -)! \cdot (- j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(+ j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{\boldsymbol{l}_s + s - \boldsymbol{n} - \boldsymbol{l}_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{k = j_{sa}^{ik} - j_{sa}}^{(\ )} \sum_{(j^{sa} = j_i + j_{sa} - s)} \sum_{j_i = \boldsymbol{l}_{sa} + \boldsymbol{n} + s - D - j_{sa}}^{\boldsymbol{l}_s + s - k}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$\mathop{}_{\Bbbk_z} S_{j_s, j_{ik}, j^{sa}} = \sum_{k=1}^{i^{l}-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{j^{sa} - j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(\boldsymbol{l_{ik}} + j_{sa} - k - j_{sa}^{ik} + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s \quad)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j^{ik}_{sa} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j^{ik}_{sa} - \quad - j_{sa}\right)!}$$

$$\frac{(\quad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} +$$

$$\sum \quad \sum_{(\quad j^{ik}_{sa}+1)}$$

$$\sum_{j \quad {}^{ik}_{sa}+1}^{\boldsymbol{l_{ik}}-k+1} \quad \sum_{(j^{sa}=\boldsymbol{l_{ik}}+ \quad -k-j^{ik}_{sa}+2)}^{(\boldsymbol{l_{sa}}-k} \quad \sum_{j_i = j^{sa}+s - j_{sa}}$$

$$\sum_{n \quad a + \Bbbk}^{n} \quad \sum_{(n_{is}=\boldsymbol{n}+\Bbbk - j_s + 1)}^{(n_i - j \quad)} \quad \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2 + \Bbbk_3 - j_{ik}+1}^{n_{is}+j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3 - j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \quad \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=\_i l}^{(\ )} \sum_{(j_s=1)}^{}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\left(l_{sa}-\_il+1\right)} \sum_{(j^{sa}\_{sa}+n-D)}^{} \sum_{j_i}^{-j_{sa}}$$

$$\sum_{=n+\Bbbk}^{n} \sum_{(}^{_i-j_{ik}-\Bbbk_1+1)} \sum_{}^{+\Bbbk_2 \ -j_{ik}+1)}$$

$$\sum_{n_{sa}=\ \Bbbk_3-j^{sa}+}^{n_{ik}+j_{ik} \quad a-\Bbbk_2} \sum_{(n_s=n-j_i+1)}^{(n_{sa}+j\ -j_i-\Bbbk_3)}$$

$$\frac{(n_i -\ _{ik} - \Bbbk_1 - 1)!}{(J_{ik} \quad 2)! \cdot \ \_l - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_i \ - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{} \sum_{(j^{sa}=l_{sa}+n-D)}^{\left(l_{ik}+j_{sa}-k-j_{sa}^{ik}+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_a}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_i - j_{sa}^s\right)!} \cdot$$

$$\frac{\qquad - k - 1)!}{(\boldsymbol{l}_s - j_s - \quad 1)! \cdot (j_s - 2} \cdot$$

$$\frac{(D - 1)!}{(D \quad j_i - \boldsymbol{n} - l_{ik} \quad \boldsymbol{n} - j_i)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \quad j^{sa} + j_{sa}^{ik} - j \quad \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \quad - s \wedge \quad + s - \quad \leq j_i < \quad \wedge$$

$$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s \quad - j_{sa} > \boldsymbol{l}_{ik} \wedge \quad + j_{sa} - s = \boldsymbol{l}_{sa} \wedge$$

$$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l} \quad \leq D + \boldsymbol{l}_s + j_{sa} \quad \boldsymbol{n} - 1 \wedge$$

$$D \geq \quad < n \quad I = \Bbbk \quad 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j \quad ^{k} < j_{sa} \quad \wedge j_{sa}^s \quad j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \{j_{s} \quad \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \quad j_{sa}, \Bbbk_3, j_{sa}\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} \quad s + \Bbbk \wedge$$

$$\Bbbk_z: \quad 3 \wedge \Bbbk = \quad + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D)}^{(\boldsymbol{l}_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n-j_s+1)}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_{s}-j_{i}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}--1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(j^{sa}-1)!\cdot(n_{sa}+j-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(+j_i-+1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{()}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} -)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} \quad n_s - j_i)!} \cdot$$

$$\frac{(\quad - 1)!}{(n_s + \quad - \boldsymbol{n} - \quad) \quad - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{j_s - k \quad)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa} \quad \boldsymbol{l}_{ik} - j_{sa})}{(j_{ik} + \boldsymbol{l}_{sa} - j^{s} \quad \boldsymbol{l}_{ik})! \cdot (\quad ^a + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D \quad \boldsymbol{l}_i)!}{(D + \quad - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l}_{sa}- \ _i\boldsymbol{l}+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_s^{ik}} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n})}^{(\boldsymbol{l} + j_{sa} - k)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(\ = \boldsymbol{n} + \Bbbk - j_s)}^{(\ - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(\ = n_{ik} + j_{ik} - \Bbbk_2)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + \ - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(\ - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D + \ \ \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j \ - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s = \ -j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}+1}^{\boldsymbol{l}_{sa}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1} \sum_{(j^{sa} = \boldsymbol{l}_s \ -D)}^{(\boldsymbol{l}_{sa}- \ )} \sum_{j_i = j^{sa}+s}^{ }$$

$$\sum_{n_i = \boldsymbol{n}+ }^{n} \sum_{(n_{is}=n+\Bbbk \ +1)}^{ } \sum_{n_{ik}=n+\Bbbk_2 \ -j_{ik}+1}^{ \ _s - j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n} \ _3 - j^{sa}+1)}^{ \ +j_{ik}-j \ } \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} \ _s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(\ ^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa}^{ik} - \boldsymbol{l}_{ik} - j_{sa})!}{(j_{ik} + \boldsymbol{l}_{sa} - j^{sa} - \boldsymbol{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{_{i}l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1} {}_{-j_{ik}+1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j\quad)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{n_s=\boldsymbol{n}-j_i+}^{+j^s\quad_{j_i-\Bbbk_3}}$$

$$\frac{(\quad - n_{is}\quad 1)!}{(j_s\quad 2)!\cdot(n_i\quad_s+1)!}\cdot$$

$$\frac{(\quad - n_{ik}\quad \Bbbk_1-1)!}{(_{ik}-j_s-1)!\cdot(_{is}+j_s\quad_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{s}\quad \Bbbk_2-1)!}{(_{\quad}-j_{ik}\quad)!\cdot(n_{i}\quad j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(\quad-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\,_{i}\boldsymbol{l}}^{(\quad)} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-\,_{i}\boldsymbol{l}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1 - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}}^{ik-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$

$D \geq n < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} \, 1 \wedge$

$s: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\},$

$s \geq 6 \wedge s = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{l_{sa} + j_{sa}^{ik} - D - j_{sa} - 1} \sum_{(j^{sa} = l_{sa} + n - D)}^{(l_{sa} - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = n + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} - \boldsymbol{l_i})!}{(\boldsymbol{n} - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\sum \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{l - 1}$$

$$\sum_{j_{ik} = \boldsymbol{l_{sa}} + j_{sa}^{ik} - D - j_{sa}}^{\boldsymbol{l_s} + j - k} \sum_{(=j_{ik} + j_{sa} - j_{sa}^{ik})}^{(-k+1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{=\boldsymbol{n} + \Bbbk}^{(n_i - j_s + 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n -)}$$

$$\sum_{k=}^{} \sum_{(j_s=1)}^{(\ \ )}$$

$$\sum_{j_{ik}}^{} \sum_{a = l_{sa}+n-}^{()} \sum_{= j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i = n + \Bbbk}^{} \sum_{= n + \Bbbk_2 + \Bbbk_3 - j_{ik}+1)}^{}$$

$$\sum_{= \Bbbk_3 - j^{sa}+1}^{n_{ik}+\ j^{sa}-\Bbbk_2} \sum_{(n_s = n - j_i + 1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{{}_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{s} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\ \ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2 \ldots j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk \ldots \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n}+2 \ldots ik-j_{ik} \ldots -2\cdot j_{sa}^s)!}$$

$$\frac{(\boldsymbol{l_s}-k \ldots)}{(\boldsymbol{l_s}-j \ldots k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D \ldots j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n} \ldots \wedge$

$1 \leq j_s \leq j_{ik}-j_{sa}^{ik}+1 \wedge j_s + \ldots k -1 \leq j_{ik} \leq \ldots sa+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq \ldots a \leq j_i+j_{sa}- \ldots j^{sa}+ \ldots j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l}_{\ldots}-j_{sa}^{ik}+ \ldots \boldsymbol{l_s} \wedge \boldsymbol{l}_{s \ldots} \ldots j_{sa}^{ik}-j_{sa} > \boldsymbol{l}_{ik \ldots} \wedge \boldsymbol{l_i}+j_{sa}-s = \boldsymbol{l_{sa}} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l_{sa}} \ldots < D+\boldsymbol{l_s} \ldots j_{s \ldots} \ldots \boldsymbol{n}-1 \wedge$

$D \geq \boldsymbol{n} \ldots n \wedge I = \Bbbk > \ldots \wedge$

$j_{sa}=j_{sa}^i - \ldots \wedge j_{sa}^{ik} < j \ldots -1 \wedge j_{sa}^s < j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \{ \ldots, \ldots \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = \ldots + \Bbbk \wedge$

$\Bbbk_2 \ldots \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_il^{-1}} \sum_{(j_s=2)}^{(l_{sa}+\boldsymbol{n}-D-j_{sa})}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s\ -j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i\quad-1)}{(j_s-2)\ (n_i-n_{is}\quad+1)!}$$

$$\frac{(n_{is}-n_{ik}-\Bbbk\quad1)!}{(j_{ik}-j_s-1)\quad+j_s-n\quad-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n\quad\Bbbk_2-1)}{(j^{sa}-j_{ik}-1)\ (n_{ik}+j\quad-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{sa-n_s\quad1)!}{(j_i-j^{sa}-1)\ (n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=\boldsymbol{l_{sa}}+\boldsymbol{n}-D-j_{sa}+1)}^{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}+2)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{ik} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (+ j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(+ j_i - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa}^{ik} - \boldsymbol{l}_{ik} - j_{sa})!}{(+ \boldsymbol{l}_{sa} - j^{sa} - \boldsymbol{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D)}^{(\boldsymbol{l}_{sa}-\ _i\boldsymbol{l}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n})}\cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} -)!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (- j_{sa})!}$$

$$\frac{( )!}{(D + j \boldsymbol{n} - l_i)! \cdot (j_i)!} -$$

$$\sum \sum$$

$$\sum_{=j_s+j_{sa}^{ik}-1 \, (j^{s} \quad k+j_{sa}-j^{ik})} \sum \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$(n_i - 1)$$

$$\sum_{=\boldsymbol{n}+\Bbbk \, (n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$( )$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i} \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k}^{i^{l-1} (l_{sa} \quad j_{sa})} \sum_{(j_s=2)}$$

$$\sum_{j_{ik}=j_s+ \quad -1}^{(l_{sa} \quad)} \sum_{(j^{sa}= \quad +\boldsymbol{n}-D)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk \quad +1)}^{(n_i- \quad 1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{\quad is+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = l_{sa} + n - D - j_{sa} + 1)}^{(l_s - k - 1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(l_{sa} - k + 1)} \sum^{sa - j_{sa}}$$

$$\sum_{n_i = n + \Bbbk} \sum_{(n_{is} = n - \Bbbk - j_s)}^{(n_i - j_s + 1)} \sum_{= n + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} + \Bbbk_3 - j^{sa})}^{(n_{ik} + j_{sa}^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=\ _i l} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{sa}}-\ _i l+1\right)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(\ ^{sa}\ -\Bbbk_3)}$$

$$\frac{(\ -\Bbbk_1\ )!}{(\ -2)!\cdot(\ -n_{ik}\ +1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}\ -1)!}{(\ -j_{ik}-1)!\cdot(\ +j_{ik}-\ _a-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(\ -n_s-1)!}{(j_i\ -j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=\boldsymbol{l_{sa}}+\boldsymbol{n}-D-j_{sa}+1)}^{(\boldsymbol{l_s}-k-1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2\cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j^s_{sa})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2\cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - 2\cdot j^s_{sa})!}$$

$$\frac{(l_s - k - \ldots)!}{(l_s - j_s - k + 1)!\,(\ldots_s - 2)!}$$

$$\frac{(D - \ldots)!}{(D + j_i \ldots \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} \ldots_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j^{ik}_{sa} + 1 \wedge j_s + j^{ik}_{sa} - 1 \leq j_{\ldots} \leq j_{\ldots} + j^{ik}_{sa} - \ldots \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} - \ldots \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j^{ik}_{sa} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik}_{sa} - j_{sa} > \boldsymbol{l_{ik}} \ldots \boldsymbol{l_i} + j_{sa} - s > \ldots_a \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j^i_{sa} - 1 \wedge j^{ik}_{sa} < j_{sa} - \ldots \wedge j^s_{sa} < j^{ik}_{sa} - \ldots \wedge$

$\boldsymbol{s}\colon \{j^s_{sa}, \cdots, \Bbbk_1, j^{ik}_{sa}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, \ldots\} \wedge$

$s \geq 0 \ldots \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=j_{ik}-j^{ik}_{sa}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{ik}_{sa}+1}^{j^{sa}+j^{ik}_{sa}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(j_i+j_{sa}-s)} \sum_{j_i=s+1}^{\boldsymbol{l_{ik}}+j^{ik}_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} -\ )} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} \quad n_s - j_i)!} \cdot$$

$$\frac{-1)!}{(n_s + \quad - \boldsymbol{n} - \quad - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{j_s - k \quad)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa} \quad \boldsymbol{l}_{ik} - j_{sa})}{(j_{ik} + \boldsymbol{l}_{sa} - j \quad \boldsymbol{l}_{ik})! \cdot (\quad^a + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i \quad_a - \boldsymbol{l}_{sa} \quad s)!}{(\quad + \boldsymbol{l}_i - j_i - \boldsymbol{l}_s \quad)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{\boldsymbol{l}-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{\boldsymbol{l}_{ik} - k + 1} \sum_{(j^{sa} = j_{sa} + 1)}^{(\boldsymbol{l}_{sa} - k + 1)} \sum_{j_i = \boldsymbol{l}_{ik} + j_{sa}^{ik} - k - s + 2}^{\boldsymbol{l}_i - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} + \dots)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \dots)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\dots_{sa} + j_{sa}^{ik} - \dots - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - \dots)! \cdot (j_i + \dots - j^{sa} - s)!} \cdot$$

$$\frac{(D - \dots)}{(D + j_i \dots - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{\left(\boldsymbol{l_{sa}} - \ _i\boldsymbol{l} + 1\right)} \sum_{j_i=s}^{\boldsymbol{l_i} - \ _i\boldsymbol{l} + 1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} - j_{sa}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}\right)! \cdot \left(j_i + j_{sa} - j^{sa} - s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}} \sum \sum_{j_i=s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum \sum_{\ ik=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(\ +2\cdot j_s + \ - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s)!}{(\ - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_\cdot)}^{(\quad)}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-\ \ -2\cdot j_{sa}^{s}\right)}\cdot$$

$$\frac{(D-\boldsymbol{l_i})}{(D+s-\ \ )!\cdot(\ \ -s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_i}\leq D+s-\boldsymbol{n}\wedge$

$1\leq j_s\leq j_{ik}-j_{sa}^{ik}+1\wedge j_s+j_{sa}^{ik}-1\leq j_{ik}\leq j^{sa}+\ \ \ \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq j_i+j_{sa}-s\wedge j^{sa}+s-\ \ \leq j_i\ \ \ \wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}\ \ \ >\boldsymbol{l_{sa}}\ \ $

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa}=j_{sa}^{i}-1\wedge j_{sa}^{ik}<j_{sa}-1\ \ \ \ \ -1\wedge$

$\boldsymbol{s}\colon\left\{j_{sa}^{s},\cdots,\Bbbk_1,j_{sa}^{ik},\cdots,\Bbbk_2,j_{s}\ \ \Bbbk_3,j_{sa}^{i}\right\}\wedge$

$s\geq6\wedge\boldsymbol{s}=s+\Bbbk\wedge$

$\Bbbk_z\colon z\ \ \ 3\wedge\Bbbk=\Bbbk_1\ \ \ \Bbbk_2+\Bbbk_3\Rightarrow$

$$_{fz}S_{j_s\ ,j_{ik},j^{sa},j_i}=\sum_{k=1}^{{}_il-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_{sa}+1)}^{(j_i+j_{sa}-s)}\sum_{j_i=s+1}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \_\_)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(\_\_ - 1)!}{(n_s + \_\_ - \boldsymbol{n} - 1)! \cdot (\_\_ - j_i)!} \cdot$$

$$\frac{(\_\_ k - 1)!}{(j_s - k - \_\_)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa} - \boldsymbol{l}_{ik} - j_{sa})!}{(j_{ik} + \boldsymbol{l}_{sa} - j^{\_} - \boldsymbol{l}_{ik})! \cdot (\_\_ + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i + \_\_ - \boldsymbol{l}_{sa} - s)!}{(\_\_ + \boldsymbol{l}_i - j_i - \boldsymbol{l}_s)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{i}^{\boldsymbol{l}-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{\boldsymbol{l}_s + j_{sa}^{ik} - k} \sum_{(j^{sa} = j_{sa} + 1)}^{(\boldsymbol{l}_{sa} - k + 1)} \sum_{j_i = \boldsymbol{l}_s + s - k + 1}^{\boldsymbol{l}_i - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} +)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1) \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} -)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (_{sa} + j_{sa}^{ik} - j - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - -)! \cdot (j_i + - j^{sa} - s)!} \cdot$$

$$\frac{(D -)}{(D + j - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k= \ _i \boldsymbol{l}} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{\left(\boldsymbol{l_{sa}} - \ _i \boldsymbol{l} + 1\right)} \sum_{(j^{sa} = j_{sa})}^{ } \sum_{j_i = s}^{\boldsymbol{l_i} - \ _i \boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \,}$$

$$\sum_{j_{ik}=}^{} \sum_{(j^{sa}=}^{} \sum_{j_i=s+1}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{} \sum_{()}^{} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{()}^{} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}^{}$$

$$\frac{\left(n_i + 2 \cdot j_s + j - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(n - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\,_il}^{()} \sum_{(j_s=1)}^{}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{()} \sum_{j_i=s}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - \quad - 2 \cdot j_{sa}^s\right)} \cdot$$

$$\frac{(D - \boldsymbol{l_i})}{(D + s - \quad)! \cdot \quad - s)!}$$

$D \geq \boldsymbol{n} < n \land \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \land$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \land j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + \quad \land$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \land j^{sa} + s - \quad \leq j_i - \quad \land$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \land \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \land \boldsymbol{l_i} + j_{sa} \quad > \boldsymbol{l_{sa}} \land$

$D \geq \boldsymbol{n} < n \land I = \Bbbk > 0 \land$

$j_{sa} = j_{sa}^i - 1 \land j_{sa}^{ik} < j_{sa} - 1 \quad \quad - 1 \land$

$\boldsymbol{s}: \left\{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa} \Bbbk_3, j_{sa}^i\right\} \land$

$s \geq 6 \land \boldsymbol{s} = s + \Bbbk \land$

$\Bbbk_z: z \quad 3 \land \Bbbk = \Bbbk_1 \quad \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{i\,\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_{ik}}+j_{sa}^{ik}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} -}$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} \quad n_s - j_i)!} \cdot$$

$$\frac{- 1)!}{(n_s + \quad - \boldsymbol{n} - \quad - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{j_s - k \quad)! \cdot (j_s - 2)!}$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa} \quad \boldsymbol{l}_{ik} - j_{sa})}{(j_{ik} + \boldsymbol{l}_{sa} - j^{\quad} \boldsymbol{l}_{ik})! \cdot (\quad^a + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i \quad_a - \boldsymbol{l}_{sa} \quad s)!}{(\quad + \boldsymbol{l}_i - j_i - \boldsymbol{l}_s \quad)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{\boldsymbol{l}_{ik} - k + 1} \sum_{(j^{sa} = \boldsymbol{l}_{ik} + j_{sa}^{ik} - k - s + 2)}^{(\boldsymbol{l}_{sa} - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l}_i - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} +)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1) \cdot (j_s - 2)!}$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (sa + j_{sa}^{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} -)! \cdot (j_i + - j^{sa} - s)!}$$

$$\frac{(D -)}{(D + j_i - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_il} \sum_{(j_s=1)}^{()}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(l_{sa}-\,_il+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{_i l - 1 \;\; (\;\;)}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik}}^{(\boldsymbol{l_{ik}} + j_s^{k} - s + 1)} \sum_{\substack{sa = j_{sa}+1}} \sum_{\substack{= j^{sa}+s-j_{sa}}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{(n_i + 1)} \sum_{(\boldsymbol{n}+\Bbbk - j_s +)} \sum_{ik = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{s} \;\; + j \;\; a - \Bbbk_2)}^{(\;\;)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(\;_i + 2 \cdot j_s + j_{\;\;} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n \;\; - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \;_i l}^{(\;\;)} \sum_{(j_s = 1)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{(\;\;)} \sum_{(j^{sa} = j_{sa})} \sum_{j_i = s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!\cdot\left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - \quad - 2\cdot j_{sa}^s\right)} \cdot$$

$$\frac{(D - \boldsymbol{l_i})}{(D + s - \quad)!\cdot(\quad - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + \quad \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - \quad \leq j_i - \quad \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - \quad > \boldsymbol{l_{sa}}$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \quad \quad ^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa} \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z \quad 3 \wedge \Bbbk = \Bbbk_1 \quad \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \quad)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} \quad n_s - j_i)!} \cdot$$

$$\frac{\quad -1)!}{(n_s + \quad - \boldsymbol{n} - \quad - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{\quad j_s - k \quad)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa} \quad \boldsymbol{l}_{ik} - j_{sa})}{(j_{ik} + \boldsymbol{l}_{sa} - j^{\quad} \quad \boldsymbol{l}_{ik})! \cdot (\quad^a + j^{ik}_{sa} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i \quad_a - \boldsymbol{l}_{sa} \quad s)!}{(\quad + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{s} \quad)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{\boldsymbol{l}-1}} \sum_{(j_s = j_{ik} - j^{ik}_{sa} + 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j^{ik}_{sa} + 1}^{\boldsymbol{l}_s + j^{ik}_{sa} - k} \sum_{(j^{sa} = \boldsymbol{l}_s + j_{sa} - k + 1)}^{(\boldsymbol{l}_{sa} - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l}_i - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \qquad)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1) \qquad (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \qquad)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \qquad_{sa} + j_{sa}^{ik} \qquad j \qquad_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} \qquad s)!}{(j^{sa} + \boldsymbol{l_i} - j \qquad)! \cdot (j_i + \qquad - j^{sa} - s)!} \cdot$$

$$\frac{(D - \qquad_{i})}{(D + j_i \qquad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{\left(l_{sa}-\ _i\boldsymbol{l}+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \ldots}$$

$$\sum_{i}^{\boldsymbol{l}-1} \sum_{(j_s = j_{ik} \ldots j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} \ldots}^{\ldots j_{sa}-k)} \sum_{(j^{sa} = j_{sa} \ldots}^{} \sum_{j_i = j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk \ldots}^{(n \ldots +1)} \sum_{(\ldots \boldsymbol{n} + \Bbbk - j_s \ldots}^{} \sum_{j_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{}$$

$$\sum_{(\ldots n_{ik} + j \ldots a - \Bbbk_2)}^{(\ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{}$$

$$\frac{(\ldots n_i + 2 \cdot j_s + j \ldots - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n \ldots - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \, _i\boldsymbol{l}}^{} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{} \sum_{(j^{sa} = j_{sa})}^{(\ )} \sum_{j_i = s}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk)}^{(\quad)}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!\cdot\left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - \quad - 2\cdot j_{sa}^{s}\right)} \cdot$$

$$\frac{(D - \boldsymbol{l_i})}{(D + s - \quad)!\cdot(\quad - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + \quad \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - \quad \leq j_i \quad \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \quad > \boldsymbol{l_{sa}}$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \quad \quad - 1 \wedge$

$\boldsymbol{s}:\left\{j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa} \quad \Bbbk_3, j_{sa}^i\right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z \quad 3 \wedge \Bbbk = \Bbbk_1 \quad \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} -)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} \quad n_s - j_i)!} \cdot$$

$$\frac{- 1)!}{(n_s + \quad - \boldsymbol{n} - \quad - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{j_s - k \quad)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa} \quad \boldsymbol{l}_{ik} - j_{sa})}{(j_{ik} + \boldsymbol{l}_{sa} - j^{\quad} \quad \boldsymbol{l}_{ik})! \cdot (\quad^a + j^{ik}_{sa} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i \quad_a - \boldsymbol{l}_{sa} \quad s)!}{(\quad + \boldsymbol{l}_i - j_i - \boldsymbol{l}_s \quad)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{ik}_{sa}} \sum_{(j^{sa}=j_{sa})}^{\left(l_{sa} - \ _i\boldsymbol{l}+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i - \ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - \text{\_\_})} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D \quad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} -$$

$$\sum \sum \sum_{(\quad j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k} \sum_{(j^{sa} \quad _{ik}+j_{sa}-j_{sa}^{ik})} \sum_{j_i = j^{sa}+s-j_{sa}}$$

$$\sum_{=\boldsymbol{n}+\Bbbk \,(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i- \quad 1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i \quad + \quad j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\,_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\quad)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1\ldots)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{(\quad)} \sum_{(n_s=n_{sa}+\ldots-j_i-\Bbbk_3)}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \ldots 2 \cdot j_s \ldots\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_s \ldots - j_{ik} - j_i \ldots j_{sa}^s\right)!} \cdot$$

$$\frac{(\ldots - \boldsymbol{l_i})!}{(\ldots - \boldsymbol{n} - \ldots)! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s\ldots} j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + \ldots - j_{sa} \leq j_i \leq \ldots \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik} \ldots j_{sa} > \ldots \wedge \boldsymbol{l_i} + \ldots - s > \ldots_a \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j^{ik} < j_{sa} - 1 \wedge j_{s\ldots} < j_{sa}^{ik} - 1 \ldots$$

$$\boldsymbol{s} : \left\{ j_{sa}^s, \ldots, \Bbbk \ldots j_{sa}^{ik}, \ldots, \ldots j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \ldots \wedge$$

$$\Bbbk_z : z \ldots 3 \wedge \Bbbk = \Bbbk_1 + \ldots + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(+l_{sa}-j^{sa}-l_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\,_il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\left(l_{sa}-\,_il+1\right)}\sum_{(j^{sa}=j_{sa})}\sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - \dots)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \dots - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \dots - \boldsymbol{l_{ik}})! \cdot (\dots - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - \dots)! \cdot (j_i + \dots - j^{sa} - s)!} \cdot$$

$$\frac{(D - \dots)}{(D + j_i - \dots - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{i \dots} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{k = j_{sa}^{ik} + 1}^{\boldsymbol{l_s} + j_{sa}^{ik} - k} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\ )} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\ _il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j\ \ j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i\ }^{n} \sum_{\Bbbk\ (n_{ik}=n_i-j_{ik}\ +1)}^{(\ )}$$

$$\sum_{\ =n_{ik}+j_{i}\ \ sa-\Bbbk_2\ (\ \ \ -j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_{i}\ \ \Bbbk_1 - \Bbbk_2\ \ \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2\ \ \Bbbk_3)! \cdot (\boldsymbol{n} + 2\ \ \ + j_{sa}^{ik}\ \ \ -j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(\ \ -s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s -\ \ \wedge$

$1 \leq j_s \leq j_{ik} - j_{s}^{ik} + 1 \wedge j_s + j_{sa}^{b}\ \ 1 \leq j_{ik} \leq\ \ ^a + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} +\ \ -j_{sa}^{ik} \leq j^s\ \ j_i + j_{sa} - s \wedge\ \ -j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 =\ \ \wedge \boldsymbol{l_{sa}} +\ \ ^{ik} - j_{sa}\ \ \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D \geq\ \ < n \wedge I = \Bbbk\ \ 0 \wedge$

$\ \ _{sa} = j_{sa}^{i}\ \ 1 \wedge j_{sa}^{ik} < j_{s}\ \ -1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s} : \{j_{s}^{s}\ \ ., \Bbbk_1, j_{sa}\ \ _2, j_{sa}, \Bbbk_3, j_{sa}^{i}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s}\ \ s + \Bbbk \wedge$

$\ \ z =\ \ \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_{s}\ ,j_{ik},j^{sa},j_i} = \sum_{k=1}^{\ _il-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{i}}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_{s}-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i - 1)!}{(j_s-2)!\,(n_i-n_{is}+1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\,(n_{is}-j_s-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\,(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\,(n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!} \cdot$$

$$\frac{\left(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa}\right)!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!} \cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=\,_il}\sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{\left(l_{sa}-\,_il+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}-j^{sa}-n_s-1)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j^{sa}_{sa}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_i-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}+2)}$$

$$\sum_{j_{ik}=j_s+j^{ik}_{sa}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j^s_{sa})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \quad)}$$

$$\sum_{k=\quad}^{\quad} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=\quad}^{\quad} \sum_{(j^{sa}=j_{sa})}^{\quad} \sum_{j_i=s}^{\quad}$$

$$\sum_{n_i=\quad}^{n} \sum_{(n_{ik}=n_i - j_{ik} - \Bbbk_1 + 1)}^{\quad}$$

$$\sum_{\quad=n_{ik}+j_{ik}-\quad-\Bbbk_2}^{\quad} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{(n_{\quad} \quad 2 \cdot j_s + j_{sa}^{ik} - \quad - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_{\quad} - \Bbbk_2 - \Bbbk_3)! \quad (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \quad D + s - \quad \wedge$

$1 \leq j_{\quad} \quad j_{ik} - j_{sa}^{ik} + \quad \quad j_s + j_{\quad}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - \quad^{k} \leq j^{sa} \leq \quad + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} \quad \quad + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \quad \quad l = \Bbbk > 0 \wedge$

$j_{\quad} \quad \quad 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s} : \{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-\ldots}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2\ldots -j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-\ldots 1)}^{(n_{ik}+j_{ik}-j^{sa}\ldots +j^s\ldots j_i-\Bbbk_3)} \sum_{n_s=\boldsymbol{n}-j_i+\ldots}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i\ldots -j_s+1)!}\cdot$$

$$\frac{\ldots -n_{ik}\ldots \Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s\ldots n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}\ldots -\Bbbk_2-1)!}{(\ldots^a-j_{ik}\ldots 1)!\cdot(n_{ik}\ldots j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(\ldots -j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\,_il} \sum_{(j_s=1)}^{(\quad)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\left(l_{sa}-\,_il+1\right)} \sum_{\left(j^{sa}=j_{sa}\right)} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{\left(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{i}\right)}^{\left(n_i-j_{ik}-\Bbbk_1+1\right)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{\left(n_s=\ \ j_i+1\right)}^{\left(n_{sa}+j^{sa}-j_i-\Bbbk\right)}$$

$$\frac{(n_i - n_{ik} - \ \ 1)!}{(j_{ik}-2)!\cdot(n_i \ \ _{ik}-j_{ik}- \ \ 1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2 \ \ )!}{(j^{sa}-j_{ik}-1)! \ \ -n_{sa} \ \ j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n \ \ -n_s-1)!}{(j_i-j \ \ -1)!\cdot(\ \ +j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s \ \ j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\ \ +j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j \ \ +\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{\,_il-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s a}^{s})!}$$

$$\frac{(\boldsymbol{l_s} - k - \ )!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (\ \ j_s - 2)!}$$

$$\frac{(D - \boldsymbol{l_i}) \ }{(D + j_i - \ - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \ )!} -$$

$$\sum \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + \ \ + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \ - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < \ \ \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$\ < \ i \ \ - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$
_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = \,-j_{sa}^{ik}+1)}^{(\ )}
$$

$$
\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_{sa}} \quad D)}^{(j_i+j_{sa} \quad \boldsymbol{l}_{ik}+s- \,j_{sa}^{ik}+1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-}^{}
$$

$$
\sum_{n_i=\boldsymbol{n}+}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk \quad +1)}^{} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2 \quad -j_{ik}+1}^{\quad i_s-j_{ik}-\Bbbk_1}
$$

$$
\sum_{(n_{sa}=\boldsymbol{n} \quad {}_3-j^{sa}+1)}^{\quad +j_{ik}-j \quad {}_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} \quad {}_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{{}_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot
$$

$$
\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_s})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot
$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{i}^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{\boldsymbol{l_{ik}} - k + 1} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(\boldsymbol{l_{sa}} - k + 1)} \sum_{j_i = \boldsymbol{l_{ik}} + \ldots k - j_{sa}^{ik} + 2}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 \ldots + 1}^{n_{is} + j_s - \ldots - \Bbbk_1}$$

$$\sum_{(n_{sa} = \ldots \Bbbk_3 - j^{sa} + \ldots)}^{(\ldots + j_{ik} - j^{sa} - \ldots n_{sa} + j^{sa} - j_i - \Bbbk \ldots)} \sum_{\ldots j_i + 1}$$

$$\frac{(\ldots - n_{is} - 1)!}{(\ldots 2)! \cdot (\ldots - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - \ldots - \Bbbk_1 - 1)!}{(j_{ik} - j_s \ldots 1)! \cdot (\ldots + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{\ldots} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_il}^{}\sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{sa}}-\,_il+1\right)}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ \ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(^{sa}-\Bbbk_3)}$$

$$\frac{(\qquad -\Bbbk_1\quad)!}{(\quad -2)!\cdot(\quad -n_{ik}\quad +1)!}\cdot$$

$$\frac{(n_{}+n_{sa}-\ -1)!}{(-j_{ik}-1)!\cdot(+j_{ik}-_a-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n-n_s-1)!}{(j_{}^{sa}-1\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - \cdots - j_i - \cdots j_{sa}^s\right)!} \cdot$$

$$\frac{\cdots - k - 1)!}{(\boldsymbol{l}_s - j_s - \cdots 1)! \cdot (j_s - \cdots} \cdot$$

$$\frac{\cdots}{(D - \cdots j_i - \boldsymbol{n} - \boldsymbol{l}_{\cdots} \boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \cdots j^{sa} + j_{sa}^{ik} - j \cdots \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \cdots - s \wedge \cdots + s - \cdots \leq j_i < \cdots \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s \cdots - j_{sa} > \boldsymbol{l}_{ik} \wedge \cdots + j_{sa} - s > \boldsymbol{l}_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l}_i \leq D + \boldsymbol{l}_s + s - \cdots 1 \wedge$

$D \geq \cdots < n \wedge I = \Bbbk \cdots 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge \cdots^{ik} < j_{sa} \cdots \wedge j_{sa}^s \cdots j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{s} \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \cdots j_{sa}, \Bbbk_3, j_{sa}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \cdots s + \Bbbk \wedge$

$\Bbbk_z: \cdots 3 \wedge \Bbbk = \cdots_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{\substack{l-1 \\ i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D)}^{(j_i+j_{sa}-s)} \sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} + j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{\left(\boldsymbol{l}_{sa}+j_{sa}^{ik}-\boldsymbol{l}_{ik}-j_{sa}\right)!}{(+\boldsymbol{l}_{sa}-j^{sa}-\boldsymbol{l}_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(l_i+j_{sa}-\boldsymbol{l}_{sa}-s)!}{(j^{sa}+\boldsymbol{l}_i-j_i-\boldsymbol{l}_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l}_{sa}-\ _il+1\right)}\sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s)} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa})}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}})! \cdot (j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} -)! \cdot (j_i + - j^{sa} - s)!}$$

$$\frac{(D - \boldsymbol{l_i})}{(D + j_i - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - n} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{= j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\ )} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_s} + s - k}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, \ldots, j^{sa}, j_i} = \sum_{k}^{i^{\boldsymbol{l}-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{()}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{j_{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(\boldsymbol{l_i} + j_{sa} - D - s - 1)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \ )} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(\ \ \ )!}{(D + j \ \ \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\ \ j_i)!} +$$

$$\sum_{k \ \ }^{(\ )} \quad \sum_{ \ \ }^{(\ \ j_{sa}^{ik} + 1)}$$

$$\sum_{ \ \ -j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa} \ \ +j_{sa}-k \ \ ^{ik}+1)} \sum_{(j^{sa}=\boldsymbol{l_i} \ \ +j_{sa}-D-s)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{ \ \ +\Bbbk \ (n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{n} \sum_{(n_i - j \ \ )} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{l_{ik} - k + 1} \sum_{(j^{sa} \dots - k - j_{sa}^{ik} \dots)}^{(l_{sa} - \dots)} \sum_{j_i = j^{sa} + s - j_{sa}}^{l_i} \sum_{(j_s = j_{ik} \dots j_{sa}^{ik} + 1)}^{{}_i l - 1} \sum^{(\;\;)}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{} \sum_{(n_{is} \dots + \Bbbk - j_s + 1)}^{(n_i \dots 1)} \sum_{\dots = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{\dots - \Bbbk_1} \sum_{(n_{sa} \dots \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} \dots - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(\dots_k - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k={}_i l} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}}^{\left(l_{sa}-{}_i l+1\right)} \sum^{-{}_i l+1}_{\boldsymbol{n}-D}$$

$$\sum_{=\boldsymbol{n}}^{n} \sum_{=\boldsymbol{n}+\mathbb{k}}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)}{}_{\mathbb{k}_3 - j_{ik}+1)}$$

$$\sum_{n_{sa}}^{n_{ik}+j_{ik}} {}_{sa-\mathbb{k}_2} \sum_{\mathbb{k}_3-j^{sa}+}^{(n_{sa}+} {}_{j_i - \mathbb{k}_3)}_{(n_s=\boldsymbol{n}-j_i+1)}$$

$$\frac{(n_i - {}_{ik} - \mathbb{k}_1 - 1)!}{(j \quad 2)! \cdot (\quad - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=l_i+n+j_{sa}-D-s)}^{(l_{ik}+j_{sa}-k-j_{sa}^{ik}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+\quad-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\quad-\quad\cdot j_{sa}^s)!}{(n_i-n-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(n+2\quad ik-j_{ik}-2\cdot j_{sa}^s)!}$$

$$\frac{(l_s-k\quad)}{(l_s-j_s\quad k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(D-l_i)!}{(D\quad j_i-n-l_i)!\cdot(n-j_i)!}$$

$D \geq n < n \wedge l_s \leq D - n \quad \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + \quad^{ik} - 1 \leq j_{ik} \leq \quad^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq \quad \leq j_i + j_{sa} - \quad j^{sa} + \quad - j_{sa} \leq j_i \leq n \wedge$

$l \quad - j_{sa}^{ik} + \quad l_s \wedge l_{sa} \quad j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D + s - n < l_i \leq \quad + l_s + \quad - n \quad 1 \wedge$

$D \geq n \quad n \wedge I = \Bbbk > \quad \wedge$

$j_{sa} = j_{sa}^i - \quad \wedge j_{sa}^{ik} < j \quad - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$s:\{\quad,\quad \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge s = \quad + \Bbbk \wedge$

$\Bbbk_2 \quad \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,j_{ik},j^{sa},j_i} = \sum_{k=1}^{l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \ \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s-1)} \ \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \ \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{}}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \ \sum_{n_{s}}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i - 1)}{(j_s - 2) \cdot (n_i - n_{is} + 1)!}$$

$$\frac{(n_{} - n_{ik} - \Bbbk - 1)!}{(j_{ik} - j_s - 1) \cdot (n_{} - n_{} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{s} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (n_{ik} + j_{} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1) \cdot (n_{sa} + j^{sa} - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \ \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \ \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_s}+j_{sa}-k)} \ \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} + 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} + j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l_i}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_s + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l}_{sa} + j_{sa}^{ik} - \boldsymbol{l}_{ik} - j_{sa}\right)!}{(j^{sa} + \boldsymbol{l}_{sa} - j^{sa} - \boldsymbol{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_i\boldsymbol{l}}\sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l}_{sa}-\,_i\boldsymbol{l}+1\right)}\sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_i-\,_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - \;)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \; - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \; - \boldsymbol{l_{ik}})! \cdot (\; - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - \;)! \cdot (j_i + \; - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \; - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{\; + \boldsymbol{l_s} + s - \;} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\;)}$$

$$\sum_{j_{ik} = j^{sa} - \; - j_{sa}}^{(\boldsymbol{l_s} + j_{sa} - k)} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\;)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$fz S_{j_s, \ldots, j^{sa}, j_i} = \sum_{k}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}+1}^{\ldots + j_{sa}^{ik} - D - s - 1} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(\boldsymbol{l_{sa}} - k + 1)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{(n_i - j_s + 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \ )} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(\quad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} +$$

$$\sum \quad \sum_{(\quad j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}= \ + j_{sa}^{ik}-D-s}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa} \ k + j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}} \ 1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{\quad a+\Bbbk}^{\boldsymbol{n}} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j \quad)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \ldots)!}$$

$$\sum_{k=\ldots} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{\ldots} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\ldots)}^{\left(\ldots - {}_i{}^{\boldsymbol{l}+1}\right)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}\ldots 1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{\ldots} \sum_{(\ldots=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{\ldots}$$

$$\sum_{\ldots_3 - j^{sa}+1}^{n_{ik}+\ldots j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{\ldots_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{s\ldots} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{\left(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=l_i+n+j_{sa}^{ik}-D-s}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk)}^{(\quad)} \sum_{=n_{sa}+j^{sa}-j_i}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-\Bbbk_2-2\cdot j_{sa}^s\right)!}{(n_i-n-\Bbbk_1-\Bbbk_2-}\cdot$$

$$\frac{1}{\left(n+2+j_{sa}^{ik}-j_i-2\cdot j_{sa}^s\right)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}$$

$D\geq n<n\wedge l_s\leq \quad-n+1\wedge$

$1\quad j_s\leq j_{ik}\quad j_{sa}^{ik}+1\quad+j_{sa}^{ik}-1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}\quad j_{sa}-j_{sa}^{ik}\leq j\quad\leq j_i+j\quad\wedge j^{sa}+s-j_{sa}\leq j_i\leq n\wedge$

$l_{ik}-j_{sa}\quad+1=l_s\wedge l_{sa}\quad j_{sa}^{ik}-j_{sa}>l_{ik}\wedge l_i+j_{sa}-s>l_{sa}\wedge$

$D+s-n\quad\leq D+\quad+s-n-1\wedge$

$D\quad n\quad\wedge I=\Bbbk>0\wedge$

$j_{sa}=j_{sa}^i-\quad\wedge j_{sa}^{ik}<j_{sa}-1\wedge j_{sa}^s<j_{sa}^{ik}-1\wedge$

$s:\{j_{sa},\cdots,\Bbbk_1,j_{sa}^{ik},\cdots,\Bbbk_2,j_{sa},\Bbbk_3,j_{sa}^i\}\wedge$

$s\geq 6\wedge s=s+\Bbbk\wedge$

$\Bbbk_z:z=3\wedge\Bbbk=\Bbbk_1+\Bbbk_2+\Bbbk_3\Rightarrow$

$$D > \boldsymbol{n} < n$$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2 - \ldots -j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa} \ldots)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{\ldots j_i-\Bbbk_3}$$

$$\frac{(\ldots - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i \ldots j_s + 1)!} \cdot$$

$$\frac{(\ldots - n_{ik} - \Bbbk_1 - 1)!}{(\ldots_{ik} - j_s - 1)! \cdot (n_{is} + j_s - \ldots_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(\ldots - j_{ik} - \ldots)! \cdot (n_{ik} \ldots j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(\ldots - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik}=l_i+n+j_{sa}^{ik}-D-s}^{l_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-k+1}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n+\Bbbk_2+\Bbbk_3-j}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i \quad -1)}{(j_s-2) \quad (n_i-n_{is} \quad +1)!}$$

$$\frac{(n_{ik}-n_{ik}-\Bbbk_1 \; 1)!}{(j_{ik}-j_s-1) \quad (n_{is}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)}{(j^{sa}-j_{ik}-1) \quad (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s \quad 1)!}{(j_i-j^{sa}-1) \quad (n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})! \cdot (j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} +$$

$$\sum_{k= _{i}l}^{} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=l_{sa}+n-D)}^{(l_{sa}- _{i}l+1)} \sum_{j_i=l_i+n-D}^{l_i- _{i}l+1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} - j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_i - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} \quad}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j^{ik} - 1 \wedge$

$\boldsymbol{s}:\{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \quad \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(l_i+\boldsymbol{n}-D-s)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(l_{sa}-k+1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s \ldots)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\ldots k - 1 \ldots)}{(l_s - \ldots - k + \ldots - 2)!} \cdot$$

$$\frac{(l_{sa} + j^{ik}_{sa} - l_{ik} \ldots)!}{(j_{ik} + l_{sa} - j^{sa} \ldots)(j^{sa} + j_s \ldots - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + \ldots - l_{sa} \ldots)}{(j^{sa} + l_i \ldots - l_{sa}) \ldots (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D \ldots l_i)!}{(D + \ldots - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{_il-1} \sum_{(j_s = l_i + \boldsymbol{n} - D - s + 1)}^{(l_{ik} - k - j^{ik}_{sa} + 2)}$$

$$\sum_{j_{ik} = j_s + j^{ik}_{sa} - 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j^{ik}_{sa})}^{(l_{sa} - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{l_i - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s \quad)} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - \quad - j_{sa}\right)!}$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}})!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})(j_i + j_{sa} \quad - s)!} \cdot$$

$$\frac{(\quad \boldsymbol{l_i})!}{\quad - \boldsymbol{n} -)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{sa}} - \ _i\boldsymbol{l}+1\right)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}- \ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} - j_{sa}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}\right)! \cdot \left(j_i + j_{sa} - j^{sa} - s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = \boldsymbol{l_i} + \boldsymbol{n} - s + 1)}^{\left(\boldsymbol{l_{ik}} - j_{sa}^{ik} + 2\right)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik}} \sum_{j_{sa} = j_{ik} + j_{sa} - j_s} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{n_{is} = \boldsymbol{n} + \Bbbk - j_s} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{(j_s - j_s + 1)}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \Bbbk_2)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{\left(\boldsymbol{n} - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3\right)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s=2)}^{(l_i + \boldsymbol{n} - D}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{(l_s \quad k+1)} \sum_{(j^{\quad}_{\quad sa}+\boldsymbol{n}-D)}^{\quad k+1} \sum_{j_i=l_i \quad D}$$

$$\sum_{n_i=\boldsymbol{n}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\quad +1)}^{\quad_{\quad}+1)} \sum_{n_{ik}=\boldsymbol{n}\quad -j_{ik}+1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}\quad_3-j^{sa}+1)}^{\quad_{ik}+j_{ik}-\quad \Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(\quad_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} \quad_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(\quad^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s = \boldsymbol{l_i} + \boldsymbol{n} - D - s + 1)}^{(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\boldsymbol{l_{sa}} - k + 1)} \sum_{j_i^{sa} + s - j_{sa}}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 + 1}^{n_{is} + j_s - \Bbbk_1}$$

$$\sum_{(n_{sa} = \Bbbk_3 - j^{sa})}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(n_i - 2)! \cdot (n_i - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_il}^{(\;)}\sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\left(l_{sa}-\,_il+1\right)}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{l_i-\,_il+1}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\,-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(\;^{sa}-\Bbbk_3)}$$

$$\frac{(\;\;-\Bbbk_1\;\;)!}{(\;\;-2)!\cdot(\;-n_{ik}\;\;+1)!}\cdot$$

$$\frac{(n_{i\;}-n_{sa}-\;-1)!}{(\;-j_{ik}-1)!\cdot(\;\;+j_{ik}-\;_a-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n\;\;-n_s-1)!}{(j_i\;j^{sa}-1\;\;(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}\;-$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i}\sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{- k - 1)!}{(\boldsymbol{l}_s - j_s - 1)! \cdot (j_s - 2} \cdot$$

$$\frac{(D-1)!}{(D - j_i - \boldsymbol{n} - l_{ik} - \boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} + j^{sa} + j_{sa}^{ik} - j \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j_i + s - j_s \leq j_i < j_{sa} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_s - j_{sa} = \boldsymbol{l_{ik}} \wedge j_i + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa} - 1 \wedge j_{sa}^{ik} < j_{ik} - 1 \wedge j_{sa}^{s} < j_s - 1 \wedge$

$\boldsymbol{s}: (j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i}) \wedge$

$s \geq 0 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3, \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\;)} \sum_{j_i=s+1}^{\boldsymbol{l}_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j_{ik}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-j_{ik}-j_{sa}^{ik}+1)!}{(j_s+j_{ik}-j_{ik}-1)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\quad k - 1)}{(l_s \quad - k + 1) \quad - 2)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{s} + 1)!}{(j_s + l_{ik} - \quad)! \cdot (j_{ik} - \quad - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \quad_{ik}}{(D + j_i \quad \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \ _il} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\quad)} \sum_{j_i = s}^{l_i - \ _il + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(l_{ik} - j_{ik} - l_s + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j\ldots} \sum_{(j^{sa} = j_i + j\ldots)}^{(\ )} \sum_{\ldots = \ldots}^{l_s + s - k}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is}\ldots + \Bbbk - j_s\ldots)}^{(n_i - j_s + 1)} \sum_{\ldots = n\ldots - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j\ldots j^{sa} - \Bbbk_2)}^{(\ )} \sum_{\ldots = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{s\ldots} - j_{ik} - j_i - \ldots - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \ldots - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k = {}_i l}^{} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{} \sum_{(j^{sa} = j_{sa})}^{(\ )} \sum_{j_i = s}^{}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s\right)!}{\left(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3\right)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + s - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - \quad)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_i \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j^{ik} + 1 \wedge j_s + j^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \quad \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \quad \quad \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \quad \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},\,j^{sa},j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - \,\,)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - \,\,1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s}) \cdot (j_{ik} - j_s + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i})!}{(\boldsymbol{n} - \,\,)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\sum_{k=1} \sum_{(j_s=2)}^{(\,\,-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}} \sum_{(\boldsymbol{l_s}+j_{sa}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{(\,\,-k+1)}$$

$$\sum_{\boldsymbol{n}+\Bbbk \,(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}}^{(\ _i\boldsymbol{l}+1)} \sum_{(j^{sa}=j_{sa}}^{} \sum_{=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{(\ +1)} \sum_{(\ =\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{}$$

$$\sum_{n_{ik}+\ }^{j^{sa}-\Bbbk_2} \sum_{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{}$$

$$\sum_{\ _3-j^{sa}+1}^{} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(\ _{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^s\ - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot (j_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+\ldots-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \ldots - \Bbbk_3 - \ldots \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \ldots - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + \ldots^{ik} - j_{ik} - \ldots - 2\cdot j_{sa}^s)!}$$

$$\frac{(l_s - k\ldots)}{(l_s - j_s \ldots k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + \ldots - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\ _i l} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge l_i \leq D + s - \boldsymbol{n} \wedge$$

$$1 \le j_s \le j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \le j_i \le \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \ge 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$f z \cdots l_{ik} \cdots = \sum^{l-1} \sum_{(j_{ik} - j_{sa}^{ik} + \cdots)}^{\cdots} \sum_{(j_s = 2)}^{\cdots}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{l_s + j_{sa} \cdots} \sum_{(j^{sa} \cdots k + j_{sa} - j_{sa}^{ik})}^{\cdots} \sum_{j_i = j^{sa} + s - j_{sa}}^{\cdots}$$

$$\sum_{(\boldsymbol{n} + \Bbbk \; (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s \cdots)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(j_s + l_{ik} - j_{ik} - l_s\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=l_s+j_{sa}^{ik}-k+1}^{l_{ik}-k+1} \sum_{(j^{sa}=j_i+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum^{j_{sa}^{ik}-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n-\Bbbk-j_s)}^{(n_i-j_s+1)} \sum_{=n+\Bbbk+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}+\Bbbk_3-j^{sa})}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 1)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(j_s + l_{ik} - j_{ik} - l_s\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k={}_il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{l_{ik}-{}_il+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{j^{sa}-\Bbbk_3}$$

$$\frac{(\ -\Bbbk_1\ -1)!}{(\ -2)!\cdot(\ -n_{ik}\ \ +1)!}\cdot$$

$$\frac{(n\ -n_{sa}\ -1)!}{(\ -j_{ik}-1)!\cdot(\ +j_{ik}-\ _a-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n\ -n_s-1)!}{(\ -j^{sa}-1)\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_{ik}-\boldsymbol{l}_s-j_{sa}^{ik}+1)!}{(\boldsymbol{l}_{ik}-j_{ik}-\boldsymbol{l}_s+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{{}_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l}_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!}$$

$$\frac{(\boldsymbol{l_s} - k - \ )!}{(\boldsymbol{l_s} - j_s - k + 1)! \ (\ _s - 2)!}$$

$$\frac{(D - \boldsymbol{l_i})\ }{(D + j_i - \ - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \ )!} -$$

$$\sum_{k} \sum_{(\ j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i + \ + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i \ \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < \ \ \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$$

$$\ < \ \leq \ _k - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$$

$\qquad D > \boldsymbol{n} < n$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \mathbb{k}_1, j_{sa}^{ik}, \cdots, \mathbb{k}_2, j_{sa}, \mathbb{k}_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$
{}_{fz}S_{j_s\,,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = 2)}^{(l_s - k + 1)}
$$

$$
\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1}^{l_{ik} - k + 1} \sum_{(j^{sa} = j_{ik} + j_{sa})}^{(\ )} \sum_{\,j_i = j^{s} \cdots - j_{sa}}
$$

$$
\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{\cdots} \cdots +1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \cdots + \mathbb{k}_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik}}
$$

$$
\sum_{(n_{ik} \cdots - j^{sa} - \mathbb{k}_2)} \sum \cdots - j_i - \mathbb{k}_3
$$

$$
\sum_{(\cdots \boldsymbol{n} + \mathbb{k}_3 - \cdots 1)} \sum_{n_s = \boldsymbol{n} - j_i + 1}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - \cdots)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(\cdots - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot
$$

$$
\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot
$$

$$
\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$\sum_{k=\,_il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{l_{ik}-\,_il+1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )}\sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{j^{sa}+\ -\Bbbk_3}$$

$$\frac{(\ -\Bbbk_1\ +1)!}{(\ -2)!\cdot(\ -n_{ik}\ +1)!}\cdot$$

$$\frac{(n\ -n_{sa}\ -1)!}{(\ -j_{ik}-1)!\cdot(\ +j_{ik}\ _a-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n\ -n_s-1)!}{(\ j^{sa}-1)\ (n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_{ik}-\boldsymbol{l}_s-j_{sa}^{ik}+1)!}{(\boldsymbol{l}_{ik}-j_{ik}-\boldsymbol{l}_s+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{\,_il-1}\sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )}\sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa})!}$$

$$\frac{(\boldsymbol{l_s} - k -)!}{(\boldsymbol{l_s} - j_s - k + 1)! \quad (\ _s - 2)!}$$

$$\frac{(D - \boldsymbol{l_i})}{(D + j_i - \cdot - \boldsymbol{l_i})! \cdot (\boldsymbol{n} -)!} -$$

$$\sum \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \quad \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \quad \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$< \quad - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik} - j_{sa}^{ik} \right)}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}}^{} \sum_{\left(j^{\cdots} + j_{sa} - s \right)}^{} \sum_{j_i = \boldsymbol{l}_i +1}^{s-k}$$

$$\sum_{n_i = \boldsymbol{n}}^{n} \sum_{(n_{is} = \boldsymbol{n} + \cdots +1)}^{} \sum_{n_{ik} = \boldsymbol{n} \cdots}^{+ j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} \cdots {}_3 - j^{sa} + 1)}^{ik + j_{ik} - \cdots \Bbbk_2} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(\cdots - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} \cdots_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(\cdots^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l}_{ik} - \boldsymbol{l}_s - j_{sa}^{ik} + 1 \right)!}{(j_s + \boldsymbol{l}_{ik} - j_{ik} - \boldsymbol{l}_s)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1 \right)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=\boldsymbol{l_s}+s-k}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2 \ldots -j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3 - \ldots 1)}^{(n_{ik}+j_{ik}-j^{sa}\ldots)} \sum_{n_s=\boldsymbol{n}-j_i+\ldots}^{\ldots+j^{\ldots}j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} \ldots 1)!}{(j_s \ldots 2)! \cdot (\ldots n \ldots j_s + 1)!} \cdot$$

$$\frac{\ldots - n_{ik} \ldots \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \ldots m_{is} + j_s \ldots n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_s \ldots \Bbbk_2 - 1)!}{\ldots^a - j_{ik} \ldots 1)! \cdot (n_{ik} \ldots j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{\ldots - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k={}_i\boldsymbol{l}}^{(\quad)} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s-j_i-\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-l_s-j_{sa}^{ik}+1\right)!}{\left(\boldsymbol{l_{ik}}-\boldsymbol{l_s}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D-j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_s=j_{ik}-j_{sa}^{ik}+1\right)}^{(\ \ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ \ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ \ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} \quad 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\},$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s = 2)}^{(j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{ik = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s)}^{(\boldsymbol{l_s} + j_{sa} - k)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - \;\;)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)\;\;(j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - \;\;1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s}\;\;(j_{ik} - j_s\;\; + 1)!} \cdot$$

$$\frac{(\;\;\boldsymbol{l_i})!}{\;\;\boldsymbol{n} - \;\;\cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{\;\;-k+1)} \sum_{(j_s=2)}^{\;\;}$$

$$\sum_{j\;\;^{sa}+j_{sa}^{\;\;}}^{(l_i\;\;-k-s+1)} \sum_{\;\;\boldsymbol{l_s}+j_{sa}-k+1)}^{\;\;} \sum_{j_i=j^{sa}+s-j_{sa}}^{\;\;}$$

$$\sum_{\boldsymbol{n}+\Bbbk\,(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$D > \boldsymbol{n} < n$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{\left(\boldsymbol{l_i}+j_{sa}-\ldots_s+1\right)} \sum_{\ldots+j_{sa}-D-\ldots}^{} \sum_{\ldots=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk\ldots}^{(\ldots+1)} \sum_{(\ldots=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{}$$

$$\sum_{n_{ik}+\ldots j^{sa}-\Bbbk_2}^{} \sum_{\ldots\Bbbk_3-j^{sa}+1}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{\ldots_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{s}\ldots - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_s=j_{ik}-j_{sa}^{ik}+1\right)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=l_i+n+j_{sa}-D-s)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}-\ \ a-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\ \ \ \ \Bbbk_2-\ \cdot j_{sa}^s)!}{(n_i-n-\Bbbk_1-\ \ -\Bbbk_3)!}\cdot$$

$$\frac{}{(n+\ \ ^{ik}-j_{ik}-\ \ i-2\cdot j_{sa}^s)!}$$

$$\frac{(l_s-k\ \ )}{(l_s-j_s\ \ k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\ \ -l_i)!}{(D\ \ j_i-n-l_i)!\cdot(n-j_i)!}$$

$D \geq n < n \wedge l_s \leq D-n+\ \ \wedge$

$1 \leq j_s \leq j_{ik}-j_{sa}^{ik}+1 \wedge j_s\ \ ^{ik}-1 \leq j_{ik} \leq\ ^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq\ ^{sa} \leq j_i+j_{sa}-\ \ j^{sa}+s\ \ j_{sa} \leq j_i \leq n \wedge$

$l_{ik}-j_{sa}^{ik}+\ \ \geq l_s \wedge l_s\ +j_{sa}^{ik}-j_{sa}=l_{ik}\ \ l_i+j_{sa}-s=l_{sa} \wedge$

$D+s-n < l_i\ \ D+l_s+\ \ -n\ \ 1 \wedge$

$D \geq\ \ < n \wedge I = \Bbbk >\ \ \wedge$

$j_{sa}=j_{sa}^i-\ \ \wedge j_{sa}^{ik} < j\ \ -1 \wedge j_{sa}^s < j_{sa}^{ik}-1 \wedge$

$s:\{\ \ ,\ \ \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge s =\ \ + \Bbbk \wedge$

$\ \ \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$D > \boldsymbol{n} < n$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_i}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s - j_i+1}^{n_{sa}+j^{sa}-j_i}$$

$$\frac{(n_i - 1)}{(j_s - 2)\ (n_i - n_{is} - 1)!}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)\ (n_{is} - n_{ik} + j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)\ (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)\ (n_{sa} + j^{sa} - n_s - j_i)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!}$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_s}+j_{sa}^{ik}-k+1}^{\boldsymbol{l_i}+j_{sa}^{ik}-k-s+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\mathbb{k}_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\mathbb{k}_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(+j^{sa}-n_s)!}\cdot$$

$$\frac{(n_s-1)!}{(+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l}_{ik}--j^{ik}_{sa}+1)!}{(j_s+-j_{ik}-)!\cdot(j_{ik}-j_s-j^{ik}_{sa}+1)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=_i\boldsymbol{l}}\sum_{(j_s=1)}^{()}$$

$$\sum_{j_{ik}=\boldsymbol{l}_i+\boldsymbol{n}+j^{ik}_{sa}-D-s}^{\boldsymbol{l}_i+j^{ik}_{sa}-\,_i\boldsymbol{l}-s+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa})}^{()} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}_2+\mathbb{k}_3-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\mathbb{k}_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\mathbb{k}_3)}$$

$$\frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \quad)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j^{ik}_{sa} \quad 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(\quad - j^{ik}_{sa}\right)!} \cdot$$

$$\frac{(\quad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} \; - $$

$$\sum_{k = \cdots}^{D + \boldsymbol{l_s} + s - \cdots} \sum_{\cdots (\cdots - j^{ik}_{sa} + 1)}^{(\;)}$$

$$\sum_{j_{ik} = \cdots + j^{ik}_{sa} - D - s \; (j^{sa} \; \cdots k + j_{sa} - j^{ik}_{sa})}^{\boldsymbol{l_s} + j^{ik}_{sa} - k} \sum \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{\cdots = \boldsymbol{n} + \Bbbk \; (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - \quad 1)} \sum \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2) \; n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{(\;)} \sum$$

$$\frac{(n_i + \quad j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j^s_{sa})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - 2 \cdot j^s_{sa}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j^{ik}_{sa} + 1 \wedge j_s + j^{ik}_{sa} - 1 \leq j_{ik} \leq j^{sa} + j^{ik}_{sa} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s : \left\{ j_{sa}^s, \cdots, \mathbb{k}_1, j_{sa}^{ik}, \cdots, \mathbb{k}_2, j_{sa}, \mathbb{k}_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$$

$$fz S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{?}^{l-?} \sum_{(j_s=2)}^{(D-s)}$$

$$\sum_{j_{ik}=l_i+n+j_{sa}^{ik}-D}^{?-k-s+1} \sum_{(j^{sa}=j_{ik}+?-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{?}$$

$$\sum_{n_i=n}^{n} \sum_{(n_{is}=n+\mathbb{k}_?+?+1)}^{(n_i-?+1)} \sum_{n_{ik}=n+\mathbb{k}_2+\mathbb{k}_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\mathbb{k}_1}$$

$$\sum_{(n_{sa}=n+\mathbb{k}_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{n_s=n-j_i+1}^{n_{sa}+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s}\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l}-1} \sum_{(j_s = l_i + \boldsymbol{n} - D - s + 1)}^{(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1}^{l_i + j_{sa}^{ik} - k - s + 1} \sum_{(j^{sa} = j_{\ldots} + j_{sa} - j_{sa}^{ik})}^{(\ )} \ldots j_{sa}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \ldots \Bbbk - j_s \ldots)}^{(n_i - j_s + 1)} \sum_{\ldots = \boldsymbol{n} + \ldots \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \ldots \Bbbk_3 - j^{sa} \ldots)}^{(n_{ik} + j_{\ldots} + \ldots^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + \ldots - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - \ldots)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \ldots - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{\ldots} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s}\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _il}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=l_i+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{l_i+j_{sa}^{ik}-\ _il-s+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{j^{sa}\ -\Bbbk_3}$$

$$\frac{(\quad -\Bbbk_1\quad 1)!}{(\quad -2)!\ (\quad -n_{ik}\quad +1)!} \cdot$$

$$\frac{(n\quad -n_{sa}\ -1)!}{(\quad -j_{ik}-1)!\cdot(\quad +j_{ik}\quad a-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n\quad -n_s-1)!}{(\quad^{sa}-1)\ (n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)!\cdot(j_{ik}-j_{sa}^{ik})!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-n-l_i} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\ } \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\ }$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s\ldots})!}$$

$$\frac{(\boldsymbol{l_s} - k - \ldots)!}{(\boldsymbol{l_s} - j_s - k + 1)! \ldots (j_s - 2)!}$$

$$\frac{(D - \ldots)}{(D + j_i \ldots \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} \ldots j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j \ldots + j_{sa}^{ik} - \ldots \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \ldots \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \ldots \boldsymbol{l_i} + j_{sa} - s = \ldots_a \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} \ldots_{sa} \ldots 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j \ldots < j_{sa}^{ik} - 1 \ldots$

$\boldsymbol{s}: \{j_{sa}^{s} \ldots, \Bbbk \ldots, j_{sa}^{ik}, \ldots, j_{sa}, \Bbbk_3, j_{sa}^{i}\} \wedge$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} = s \ldots \Bbbk \wedge$

$\Bbbk_z : \ldots 3 \wedge \Bbbk = \Bbbk_1 \ldots \Bbbk_2 + \Bbbk_3$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)} \sum_{j_i=\boldsymbol{l_{sa}}+\boldsymbol{n}+s-D-j_{sa}}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{ik} - j_s - j_{sa}^{ik} + 1)!}{(j_s + s - j_{ik} - 1)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}_i - 1} \sum_{(j_s=2)}^{(\boldsymbol{l}_s - k + 1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(\ )} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{} \sum_{j_i=\boldsymbol{l}_s+s-k+1}^{\boldsymbol{l}_{sa}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s \cdots)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\cdots k - 1 \cdots)}{(\boldsymbol{l_s} - \cdots - k + \cdots - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{s\cdots} + 1)!}{(j_s + \boldsymbol{l_{ik}} - \cdots)! \cdot (j_{ik} - \cdots - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \cdots)}{(D + j_i \cdots - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = _i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} \cdots^k - j_{sa} \, (j^{sa} = j_i + j_{sa} - s)}^{(\ )} \sum_{j_i = \boldsymbol{l_{sa}} + \boldsymbol{n} + s - D - j_{sa}}^{\boldsymbol{l_{sa}} + s - \,_i\boldsymbol{l} - j_{sa} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(l_{ik} - j_{ik} - l_s + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D + l_s + s - n - l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}}^{} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\ )} \sum_{j_i =}^{l_s - k}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_i)}^{(n_i - j_s + 1)} \sum_{n_{ik} =}^{j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j^{sa} - \Bbbk_2)}^{(\ )} \sum_{}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa} - j_{ik} - j_i - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(n_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\geq n < \quad \wedge l_s \leq D - \quad + 1 \wedge$$

$$1 \leq j \leq j_{ik} - \quad \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - \quad^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$$

$$\quad - j_{sa}^{ik} \quad > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D \geq n < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \left\{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\right\} \wedge$$

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$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j_{sa}-k)}\sum_{j_i=}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+)}^{(n_i-j_s+1)}\sum$$

$$\sum_{(n_{sa}=\quad-j^{sa}+1)}$$

$$\frac{(n_{\quad}-n_{is}-1)!}{(j_s\quad2)!\cdot(n_{\quad}-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{\quad}-\Bbbk_1-1)!}{(\quad-j_s\quad)!\cdot(\quad+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{\quad}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s \ - j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i \qquad -1)}{(j_s-2 \qquad (n_i-n_{is} \quad +1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk \quad 1)!}{(j_{ik}-j_s-1 \qquad j_s-n_{ik} \quad -j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{s} \quad \Bbbk_2-1)}{(j^{sa}-j_{ik}-1 \quad (n_{ik}+j \quad -n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s \quad 1)!}{(j_i-j^{sa}-1 \quad (n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(l_{sa}-\ _i\boldsymbol{l}+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk)!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-)}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s-\boldsymbol{l}_s-j^{ik}+1)!}{(\boldsymbol{l}_{ik}-\boldsymbol{l}_s-1)! \cdot (\boldsymbol{l}-j^{ik}_{sa})!} \cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(\boldsymbol{l}+j_i-\boldsymbol{n}-\boldsymbol{l}_i)! \cdot (\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{\boldsymbol{l}_s+s-\boldsymbol{n}-\boldsymbol{l}_i} \sum_{(j_s=j_{ik}-j^{ik}_{sa}+1)}^{(\quad)}$$

$$\sum_{j^{sa}+j^{ik}_{sa}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D)}^{(\boldsymbol{l}_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2 \cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2 \cdot j^s_{sa})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n}+2 \cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-2 \cdot j^s_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j_{sa}, j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s = 2)}^{(j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{=l_{sa}+\boldsymbol{n}}^{l_s+\cdots -k} \sum_{sa - D - j_{sa}}^{(\ )} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s}$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s}^{ik} + 1)!}$$

$$\frac{()!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \quad j_i)!} +$$

$$\sum_{}^{{}_i{}^{l-1}} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik} \quad +j_{sa}^{ik}-k+1}^{\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}} \sum_{(j^{sa} \quad k+j_{sa}-j_{sa}^{ik})}^{} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{\boldsymbol{a}+\mathbb{k}}^{} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s)} \sum_{n_{ik}=\boldsymbol{n}+\mathbb{k}_2+\mathbb{k}_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\mathbb{k}_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\mathbb{k}_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=\ _il}^{\ } \sum_{(j_s=\ )}^{(\ )}$$

$$\sum_{j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}}^{l_{sa}+j_{sa}^{ik}-\ _il-j_{sa}+1} \sum_{(j^{sa}=\ j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{ }^{-j_{sa}}$$

$$\sum_{=n+\mathbb{k}}^{n} \sum_{ }^{(n_i-j_{ik}-\mathbb{k}_1+1)}$$

$$\sum_{n_{ik}+j_{ik}}^{ } \sum_{(n_{sa}+j}^{ }$$

$$\sum_{n_{sa}-\ \mathbb{k}_3-j^{sa}+}^{ } \sum_{(n_s=n-j_i+1)}^{ }$$

$$\frac{(n_i - \ _{ik} - \mathbb{k}_1 - 1)!}{(j_{i}\ 2)! \cdot (\ - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{i}\ - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(l_{ik} - j_{ik} - l_s + 1)! \cdot (j_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}}^{l_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{ }$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!}\cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - \cdots - j_i - \cdots j_{sa}^s\right)!}\cdot$$

$$\frac{\cdots - k - 1)!}{(\boldsymbol{l}_s - j_s - \cdots 1)!\cdot(j_s - \cdots}\cdot$$

$$\frac{(D - \cdots)!}{(D \cdots j_i - \boldsymbol{n} - \boldsymbol{l}_{\cdots} \cdots \boldsymbol{n} - j_i)!}$$

$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l}_s \le D - \boldsymbol{n} + 1 \wedge$

$1 \le j_s \le j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \cdots j^{sa} + j_{sa}^{ik} - j \cdots \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + \cdots - s \wedge \cdots + s - \cdots \le j_i \le \cdots \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 > \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s \cdots - j_{sa} = \boldsymbol{l}_{ik} \wedge \cdots + j_{sa} - s = \boldsymbol{l}_{sa} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l}_{\cdots} \le D + \boldsymbol{l}_s + j_{sa} \cdots \boldsymbol{n} - 1 \wedge$

$D \ge \cdots < n \cdots I = \Bbbk \cdots 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge \cdots^k < j_{sa} \cdots \wedge j_{sa}^s \cdots_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa} \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \cdots j_{sa}, \Bbbk_3, j_{sa}\} \wedge$

$\boldsymbol{s} \ge 6 \wedge \boldsymbol{s} \cdots s + \Bbbk \wedge$

$\Bbbk_z: \cdots 3 \wedge \Bbbk = \cdots_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(\boldsymbol{l}_{sa}+\boldsymbol{n}-D-j_{sa})}$$

$$\sum_{j_{ik}=\boldsymbol{l}_{sa}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}}^{\boldsymbol{l}_{sa}+j_{sa}^{ik}-k-j_{sa}+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \;\; \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \;\; \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \;\; \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(\boldsymbol{n}+j_i-n_s-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(l_{ik}-l_s-j_{sa}^{ik}+1)!}{(j_s-l_{ik}-j_{ik}-l_s)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_i l-1} \;\; \sum_{(j_s=\boldsymbol{l_{sa}}+\boldsymbol{n}-D-j_{sa}+1)}^{(l_s-k-1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1} \;\; \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \;\; \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \;\; \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \;\; \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \;\; \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \quad)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} \quad n_s - j_i)!} \cdot$$

$$\frac{\quad - 1)!}{(n_s + \quad - \boldsymbol{n} - \quad \quad - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{\quad_s - k \quad)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} \quad - j_{sa}^{ik} \quad}{(j_s + \boldsymbol{l_{ik}} \quad - \boldsymbol{l_s}) \quad (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D \quad \boldsymbol{l_i})!}{(D + \quad - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k= \ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j \quad \boldsymbol{l_{sa}} + \boldsymbol{n} + j_{sa}^{ik} - D - j_{sa}}^{\quad + j_{sa}^{ik} \quad - j_{sa} + 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\quad)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{\cdot = \boldsymbol{l_{sa}} + \boldsymbol{n} - j_{sa} + 1}^{(\boldsymbol{l_s} \cdot k - 1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik}} \sum_{\cdot sa = j_{ik} + j_{sa} - } \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{= \boldsymbol{n} + \Bbbk - j_s} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{= n_{ik} + j_{ik} - \Bbbk_2)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + \cdots j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(\cdots - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$D > \cdots \boldsymbol{n} \wedge \boldsymbol{l_s} \le D - \boldsymbol{n} + 1 \wedge$$

$$1 \le j_s \le j_{\cdots} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \le j_i \le \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} \le D + \boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{n} - 1 \wedge$$

$$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$\qquad D > \boldsymbol{n} < n$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i l-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik})}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa})}^{(\;)} \sum_{j_i=\boldsymbol{l}_{ik}+s+\boldsymbol{n}-D}^{\boldsymbol{l}_s+s}$$

$$\sum_{n_i=\boldsymbol{n}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\cdots+1)}^{(\cdots+1)} \sum_{n_{ik}=\boldsymbol{n}\cdots}^{+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}\cdots_3-j^{sa}+1)}^{+j_{ik}-\cdots\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{ik} - \boldsymbol{l}_s - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l}_{ik} - j_{ik} - \boldsymbol{l}_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_il-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=l_s+s-k+}^{l_{ik}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2 \ -j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j\ \ )}^{(n_{ik}+j_{ik}-j^{sa}\ \ +j^{s}\ \ j_i-\Bbbk_3} \sum_{n_s=\boldsymbol{n}-j_i+}$$

$$\frac{(\ \ -n_{is}\ \ 1)!}{(j_s\ \ 2)! \cdot (n\ \ _s+1)!} \cdot$$

$$\frac{(\ \ -n_{ik}\ \ \Bbbk_1-1)!}{(\ j_{ik}-j_s-1)! \cdot (n_{is}+j_s\ \ n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{s\ \ }-\Bbbk_2-1)!}{(\ \ _{\ \ }-j_{ik}\ \ )! \cdot (n_{ik}\ \ j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(\ \ -j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=\ {}_il}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=l_{ik}+s+\boldsymbol{n}-D-j_{sa}^{ik}}^{l_{ik}+s-\ {}_il-j_{sa}^{ik}+1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa}-1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n - \ldots)!}{(n_s + j_i - \boldsymbol{n} - \ldots - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - \ldots - j_{sa}^{ik} + 1\right)!}{(l_{ik} - \ldots - l_s + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D - j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=l_{ik}+s+\boldsymbol{n}-D-j_{sa}^{ik}}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$

$D \geq n < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} \quad 1 \wedge$

$s: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\}$

$s \geq 6 \wedge s = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j^{sa} + j_{sa}^{ik} - j_{sa}}^{(l_s + j_{sa} - k)} (j^{sa} = l_{ik} + n + j_{sa} - D - j_{sa}^{ik}) \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = n + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} -)} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{ik} - \boldsymbol{l}_s - 1)!}{(j_s + \boldsymbol{l}_{ik} - j_{ik} - \boldsymbol{l}_s) \cdot (j_{ik} - j_s + 1)!} \cdot$$

$$\frac{(\boldsymbol{l}_i)!}{ \boldsymbol{n} \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\sum_{k=1} \sum_{(j_s = 2)}$$

$$\sum_{j_{ik} = sa + j_{sa}^{ik} - j_{sa}} \sum_{\boldsymbol{l}_s + j_{sa} - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{(\boldsymbol{l}_{ik} + \, -k - j_{sa}^{ik} + 1)}$$

$$\sum_{= \boldsymbol{n} + \Bbbk} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{\left(l_{ik}+j_{sa}-l_s-j_{sa}^{ik}+1\right)} \sum \sum_{=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk}^{} \sum^{n+\Bbbk_2+\Bbbk_3-j_{ik}+1}$$

$$\sum_{\Bbbk_3-j^{sa}+1}^{n_{ik}+j^{sa}-\Bbbk_2} \sum_{(n_s=n-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{{}_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{(l_{ik} - j_{ik} - l_s + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik})}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}^{n}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}\quad a-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \quad j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \quad \Bbbk_3)!} \cdot$$

$$\frac{}{(\boldsymbol{n} + \quad^{ik} - j_{ik} \quad - 2 \cdot j_{sa}^s)!}$$

$$\frac{(\boldsymbol{l_s} - k}{(\boldsymbol{l_s} - j_s \quad k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\quad - \boldsymbol{l_i})!}{(D \quad j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + \quad \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + \quad^{ik} - 1 \leq j_{ik} \leq \quad^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq \quad^{sa} \leq j_i + j_{sa} - \quad j^{sa} + s \quad j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_i} \quad - j_{sa}^{ik} + \quad \boldsymbol{l_s} \wedge \boldsymbol{l_s} \quad + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} < D + \boldsymbol{l_s} \quad^{ik} \quad \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} \quad < n \wedge I = \Bbbk > \quad \wedge$

$j_{sa} = j_{sa}^i - \quad \wedge j_{sa}^{ik} < j \quad - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{ \quad \quad \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = \quad + \Bbbk \wedge$

$\Bbbk_2 \quad \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_i}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i \qquad -1)}{(j_s-2) \qquad (n_i-n_{is} \qquad +1)!} \cdot$$

$$\frac{(n_{ik}-n_{ik}-\Bbbk_1 \qquad 1)!}{(j_{ik}-j_s-1) \qquad n_{is}-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1) \quad (n_{ik}+j \quad -n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{n_{sa}-n_s \quad 1)!}{(j_i-j^{sa}-1) \quad (n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_s}+j_{sa}^{ik}-k+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_s + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1)!}{(j_s + j_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l}_{ik}+\boldsymbol{n}-D}^{\boldsymbol{l}_{ik}-\ _i\boldsymbol{l}+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \qquad)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} \quad 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot (\quad - j_{sa}^{ik})!} \cdot$$

$$\frac{(\qquad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} \ -$$

$$\sum_{k= \ }^{D + \boldsymbol{l_s} + s - \ } \sum_{\ = \ (\ - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{\ = \boldsymbol{l_{ik}} + \boldsymbol{n} - D \ (j^{sa} \ \ + j_{sa} - j_{sa}^{ik})}^{\boldsymbol{l_s} + j_{sa}^{ik} \ } \sum_{\ }^{(\ )} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{\ = \boldsymbol{n} + \Bbbk \ (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - \ 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i \ \ j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$fz S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k}^{l-1} \sum_{(j_s=2)}^{i^{l-1}(l_{ik}\cdots j_{sa}^{ik})}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}\cdots j_{sa}^{ik})} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk\cdots+1)}^{(n_i-\cdots 1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(j_s + l_{ik} - j_{ik} - l_s\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{{}_i l - 1} \sum_{(j_s = l_{ik} + n - D - j_{sa}^{ik} + 1)}^{(l_s - k + 1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1}^{l_{ik} - k + 1} \sum_{(j^{sa} = j \cdots j_{sa} - j_{sa}^{ik})}^{(\ )}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = \cdots - j_s \cdots)}^{(n_i - j_s + 1)} \sum_{\cdots = n + \cdots \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} \cdots + \Bbbk_3 - j^{sa} \cdots)}^{(n_{ik} + j_{ik} \cdots^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + j \cdots - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s \cdots)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \cdots - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^s \cdots j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(j_s + l_{ik} - j_{ik} - l_s\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=\,_i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\,_i\boldsymbol{l}+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{\ j^{sa}\ -\Bbbk_3}$$

$$\frac{(\ -\Bbbk_1\ -1)!}{(\ -2)!\cdot(\ -n_{ik}\ +1)!}\cdot$$

$$\frac{(n\ -n_{sa}\ -1)!}{(\ -j_{ik}-1)!\cdot(\ +j_{ik}-\ -j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n\ -n_s-1)!}{(\ -j^{sa}-1)\ (n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}\,-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=\boldsymbol{l_{ik}}+\boldsymbol{n}-D-j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{s})!}$$

$$\frac{(\boldsymbol{l_s} - k -)!}{(\boldsymbol{l_s} - j_s - k + 1)! \quad (\quad_s - 2)!}$$

$$\frac{(D -)}{(D + j_i \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} \quad_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j \quad + j_{sa}^{ik} - j \quad \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \quad \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \quad \boldsymbol{l_i} + j_{sa} - s > \quad_a \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} \quad \wedge j_{sa}^s < j_{sa}^{ik} - \quad \wedge$

$\boldsymbol{s}: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, \quad\} \wedge$

$s \geq 0 \quad \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \quad \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s,\, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(j_i+j_{sa}-s)} \sum_{(j^{sa}=j_{sa}+1)}^{\boldsymbol{l_s}+s-k} \sum_{j_i=s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \ \ )!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(\ \ - 1)!}{(n_s + \ \ - \boldsymbol{n} - \ \ - j_i)!} \cdot$$

$$\frac{(l_{s} \ \ k - 1)!}{(j_s - k \ \ )! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{ik} \ \ - j_{sa}^{ik} \ \ )!}{(j_s + l_{ik} \ \ - l_s) \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(l_i \ \ a - l_{sa} \ \ s)!}{(\ \ + l_i - j_i - l_s) \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_{sa}-k+1)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} + \ldots)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1) \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - \ldots - 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s}) \cdot (j_{ik} - j_s - \ldots + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - \ldots) \cdot (j_i + \ldots - j^{sa} - s)!} \cdot$$

$$\frac{(D - \ldots)}{(D + j_i \ldots \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k= {}_il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa})}^{\left(\boldsymbol{l_{sa}}- {}_il+1\right)} \sum_{j_i=s}^{\boldsymbol{l_i}- {}_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot (j_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{}^{{}_i\boldsymbol{l}-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{()}$$

$$\sum_{j_{ik}=}^{} \sum_{(j^{sa}=j_{sa}-s)}^{()} \sum_{j_i=s+1}^{-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{(\boldsymbol{n})} \sum_{(\boldsymbol{n}+\Bbbk-j_s)}^{()} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(n\phantom{n_{ik}+j}-\Bbbk_2)}^{()} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}^{}$$

$$\frac{(n_i + 2 \cdot j_s + j - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k={}_i\boldsymbol{l}}^{()} \sum_{(j_s=1)}^{()}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{()} \sum_{j_i=s}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_\bullet)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - \ - 2\cdot j_{sa}^{s}\right)} \cdot$$

$$\frac{(D - \boldsymbol{l_i})}{(D + s - \boldsymbol{n})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - \ \leq j_i - \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \ > \boldsymbol{l_{sa}}$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \ \ ik - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa} \Bbbk_3, j_{sa}^{i}\right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z \ 3 \wedge \Bbbk = \Bbbk_1 \ \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{} \sum_{(j^{sa}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \quad)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(\quad - 1)!}{(n_s + \quad - \boldsymbol{n} - \quad - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{(j_s - k \quad)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} \quad - j_{sa}^{ik} \quad)!}{(j_s + \boldsymbol{l_{ik}} \quad - \boldsymbol{l_s}) \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} \quad _a - \boldsymbol{l_{sa}} \quad s)!}{(\quad + \boldsymbol{l_i} - j_i - \boldsymbol{l_s} \quad)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdots)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1) \cdots (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa} - 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} \cdots (j_{ik} - j_s \cdots + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - \cdots)! \cdot (j_i + \cdots - j^{sa} - s)!} \cdot$$

$$\frac{(D - \cdots)}{(D + j_i \cdots \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {}_i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\;)}$$

$$\sum_{{}_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_{sa})}^{\left(l_{sa} - {}_i\boldsymbol{l} + 1\right)} \sum_{j_i = j^{sa} + s - j_{sa}}^{l_i - {}_i\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(l_{ik} - j_{ik} - l_s + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(l_i + j_{sa} - l_{sa} - s\right)!}{\left(j^{sa} + l_i - j_i - l_{sa}\right)! \cdot \left(j_i + j_{sa} - j^{sa} - s\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!}$$

$$\sum_{\ }^{\ _i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa}}^{\ _{sa} - k} \sum_{(j^{sa} = j_{sa})}^{\ } \sum_{j_i = j^{sa} + s - j_{sa}}^{\ }$$

$$\sum_{n_i = \mathbf{n} + \Bbbk}^{(\ _k + 1)} \sum_{(\ = \mathbf{n} + \Bbbk - j_s)}^{\ } \sum_{ik = n_{is} + j_s - j_{ik} - \Bbbk_1}^{\ }$$

$$\sum_{(\ = n_{ik} + j \ - \Bbbk_2)}^{(\ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{\ }$$

$$\frac{\left(n_i + 2 \cdot j_s + j \ - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{\left(\ - \mathbf{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3\right)!} \cdot$$

$$\frac{1}{\left(\mathbf{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \mathbf{n} - l_i)! \cdot (\mathbf{n} - j_i)!} -$$

$$\sum_{k = \ _i l}^{(\ )} \sum_{(j_s = 1)}^{\ }$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{\ } \sum_{(j^{sa} = j_{sa})}^{(\ )} \sum_{j_i = s}^{\ }$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - \ - 2\cdot j_{sa}^{s}\right)} \cdot$$

$$\frac{(D - \boldsymbol{l_i})}{(D + s - \ )! \cdot \ -s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + \ \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - \ \leq j_i - \ \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \ > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \ \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa} \ _3, j_{sa}^{i} \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z \ 3 \wedge \Bbbk = \Bbbk_1 \ \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \ )!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(\ - 1)!}{(n_s + \ - \boldsymbol{n} - \ ) \cdot (\ - j_i)!} \cdot$$

$$\frac{(\ \ k - 1)!}{(j_s - k \ )! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} \ - j^{ik}_{sa} + \ )!}{(j_s + \boldsymbol{l_{ik}} \ - \boldsymbol{l_s}) \ (j_{ik} - j_s - j^{ik}_{sa} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} \ _a - \boldsymbol{l_{sa}} \ s)!}{(\ + \boldsymbol{l_i} - j_i - \boldsymbol{l_s} \ )! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l} - 1} \sum_{(j_s=2)}^{(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_s}+j^{ik}_{sa}-k+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdots)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1) \cdots (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - \cdots 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} \cdots (j_{ik} - j_s \cdots + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} \cdots s)!}{(j^{sa} + \boldsymbol{l_i} - \cdots)! \cdot (j_i + \cdots - j^{sa} - s)!} \cdot$$

$$\frac{(D - \cdots)}{(D + j_i \cdots \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {}_i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{\boldsymbol{l_{ik}} - {}_i\boldsymbol{l} + 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\ )} \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l_i} - {}_i\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}\right)! \cdot \left(j_i + j_{sa} - j^{sa} - s\right)!} \cdot$$

$$\frac{\left(D - \boldsymbol{l_i}\right)!}{\left(D + j_i - \boldsymbol{n} - \boldsymbol{l_i}\right)! \cdot \left(\boldsymbol{n} - j_i\right)!}$$

$$\sum_{i^{l-1}} \sum_{\left(j_s = j_{ik} - j_{sa}^{ik} + 1\right)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{\boldsymbol{l_s} + j_{sa}^{ik} - k} \sum_{+ j_{sa} - j_{sa}} \sum_{= j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{(n+1)} \sum_{(n+\Bbbk - j_s} \sum_{ik = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{\left(n_{s} + j^{sa} - \Bbbk_2\right)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{\left(l_i + 2 \cdot j_s + j - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{\left(n - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3\right)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_s} - k - 1\right)!}{\left(\boldsymbol{l_s} - j_s - k + 1\right)! \cdot \left(j_s - 2\right)!} \cdot$$

$$\frac{\left(D - \boldsymbol{l_i}\right)!}{\left(D + j_i - \boldsymbol{n} - \boldsymbol{l_i}\right)! \cdot \left(\boldsymbol{n} - j_i\right)!} -$$

$$\sum_{k = {}_i l} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}^{(\ )} \sum_{j_i = s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_{\quad})}^{(\quad)}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - \quad - 2\cdot j_{sa}^s\right)} \cdot$$

$$\frac{(D - \boldsymbol{l_i})}{(D + s - \quad)! \cdot (\quad - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + \quad \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - \quad \leq j_i - \quad \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \quad > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \quad \quad ^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa} \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z \quad 3 \wedge \Bbbk = \Bbbk_1 \quad \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l_{ik}}-k+1} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \quad)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} \quad n_s - j_i)!} \cdot$$

$$\frac{\quad - 1)!}{(n_s + \quad - \boldsymbol{n} - 1 \quad - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{j_s - k \quad)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} \quad - j_{sa}^{ik} \quad)!}{(j_s + \boldsymbol{l_{ik}} \quad - \boldsymbol{l_s}) \quad (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} \quad _a - \boldsymbol{l_{sa}} \quad s)!}{(\quad + \boldsymbol{l_i} - j_i - \boldsymbol{l_s} \quad)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \,_i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{\boldsymbol{l_{ik}} - \,_i\boldsymbol{l}+1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\quad)} \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l_i} - \,_i\boldsymbol{l}+1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot (j_{ik} - \ldots)}$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - \ldots^{sa} - s)!}$$

$$\frac{(\ldots)!}{(D + \ldots \boldsymbol{n} - \boldsymbol{l_i})! \cdots (\ldots j_i)!} -$$

$$\sum \sum_{(j_s = 2)}^{_i \boldsymbol{l} - 1 \ (\boldsymbol{l_s} - k + \ldots)}$$

$$\sum_{= j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa} \ldots k + j_{sa} - j_{sa}^{ik})} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{= \boldsymbol{n} + \Bbbk \ (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - \ldots 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \ldots j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \ _i \boldsymbol{l}} \sum_{(j_s = 1)}^{(\ )}$$

$D > \boldsymbol{n} < n$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}} \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1\ldots)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{(n_s=n_{sa}+\ldots-j_i-\mathbb{k}_3)}^{(\quad)}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - \ldots - 2\cdot j_s \ldots\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j \ldots - j_{ik} - j_i \ldots - j_{sa}^s\right)!} \cdot$$

$$\frac{\left(\ldots - \boldsymbol{l}_i\right)!}{(\ldots - \boldsymbol{n} - \ldots)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s\ldots} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + \ldots - j_{sa} \leq j_i \leq \ldots \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik} \ldots j_{sa} = \ldots \wedge \boldsymbol{l_i} + \ldots - s \ldots_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + \ldots - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \ldots \mathbb{k} > 0 \wedge$

$j_{sa} = \ldots_{sa} - \ldots \wedge j_{sa}^{ik} \leq \ldots - 1 \wedge j_{sa}^s < j_{s\ldots} + 1 \wedge$

$\boldsymbol{s}: (j_{sa}^s, \cdots, \mathbb{k}_1, j_{sa\ldots}, \cdots, \mathbb{k}_2, j_{s\ldots}\mathbb{k}_3, j_s^i \ldots) \ldots$

$s \geq \ldots \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 3 \wedge \ldots = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$_{fz}S_{j_s,\, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(j_i+j_{sa}-s)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\mathbb{k}_2+\mathbb{k}_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\mathbb{k}_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-j_{ik}-j_{sa}^{ik}+1)!}{(j_s+j_{ik}-j_{ik}-\boldsymbol{l})!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{\boldsymbol{l}-1}\sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)}\sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} -)} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(- 1)!}{(n_s + - \boldsymbol{n} - - j_i)!} \cdot$$

$$\frac{(k - 1)!}{(j_s - k)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - j_{sa}^{ik})!}{(j_s + \boldsymbol{l_{ik}} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} _a - \boldsymbol{l_{sa}} s)!}{(+ \boldsymbol{l_i} - j_i - \boldsymbol{l_s})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {}_i \boldsymbol{l}} \sum_{(j_s = 1)}^{()}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{\left(\boldsymbol{l_{sa}} - {}_i \boldsymbol{l} + 1\right)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - {}_i \boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot (j_{ik} -)} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D -)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - } \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{()}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_s}^{()} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_s} + s - k}$$

$$\sum_{=\boldsymbol{n} + \Bbbk}^{(n_i - 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{()} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i} \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} \sum_{\ldots} \sum_{(j_s=2)}^{\ldots}$$

$$\sum_{j_{ik}=j^{sa}+j^{sa}_{\ldots}} \sum_{(j^{sa}\ldots+\boldsymbol{n}-D)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\ldots l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk\ldots+1)}^{(n_i-\ldots 1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{\ldots is+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik}-l_s-j_{sa}^{ik}+1\right)!}{(j_s+l_{ik}-j_{ik}-l_s)!\cdot\left(j_{ik}-j_s-j_{sa}^{ik}+1\right)!}\cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}$$

$$\sum_{k=1}^{l-1}\sum_{\;(\;=2)}^{\;(\;ik-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{\;l+n+j_{sa}-D\;}^{(l_s+\;-k)}\sum_{j_i=j^{sa}+s-j_{sa}}^{\;}$$

$$\sum_{n_i=n+k\;(n_{\;}+k-j_s+\;)}\sum_{\;}^{(n_i\;+1)}\sum_{\;=n+k_2+k_3-j_{ik}+1}^{\;-k_1}$$

$$\sum_{(n_{sa}=\;k_3-j^{sa}+1)}^{(n_{ik}\;-j^{sa}-k_2)}\sum_{n_s=n-j_i+1}^{n_{sa}+j^{sa}-j_i-k_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-k_1-1)!}{(\;-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-k_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-k_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-k_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{\left(l_{ik}-l_s-j_{sa}^{ik}+1\right)!}{(j_s+l_{ik}-j_{ik}-l_s)!\cdot\left(j_{ik}-j_s-j_{sa}^{ik}+1\right)!}\cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$D > \boldsymbol{n} < n$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+}^{n_{is}+j_s-\Bbbk_1}$$

$$\sum_{(n_{sa}+\Bbbk_3-j)}^{(n_{ik}+j_{ik}-j^{sa}-)} \sum_{-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{-n_{is}-1)!}{(-2)! \cdot (-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is}-1-\Bbbk_1-1)!}{(j_{ik}-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})! \cdot (j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(l_{sa}-\,_il+1\right)}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+}^{(n_i-j_{ik}-\Bbbk_1+1)}{}_{-j_{ik}+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{({}^{isa}-\Bbbk_3)}$$

$$\frac{(\ -\Bbbk_1\ )!}{(\ -2)!\cdot(\ -n_{ik}\ +1)!}\cdot$$

$$\frac{(n_{}-n_{sa}\ -1)!}{(j\ -j_{ik}-1)!\cdot(\ +j_{ik}-{}_{a}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n\ -n_s-1)!}{(j\ {}^{isa}-1)\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1\right)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)!\cdot\left(j_{ik}-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-l_i}\sum_{\left(j_s=j_{ik}-j_{sa}^{ik}+1\right)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_s}+j_{sa}-k)}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - j_{sa}^{s}\right)!} \cdot$$

$$\frac{(\ldots - k - 1)!}{(\boldsymbol{l}_s - j_s - \ldots + 1)! \cdot (j_s - 2 \ldots)} \cdot$$

$$\frac{(D - \ldots)!}{(D \ldots j_i - \boldsymbol{n} - \boldsymbol{l}_{ik} \ldots n - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \ldots j^{sa} + j_{sa}^{ik} - j \ldots \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \ldots - s \wedge \ldots + s - \ldots \leq j_i < \ldots \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 > \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s \ldots - j_{sa} = \boldsymbol{l}_{ik} \wedge \ldots + j_{sa} - s > \boldsymbol{l}_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l}_i \leq D + \boldsymbol{l}_s + s - \ldots 1 \wedge$

$D \geq \ldots < n \wedge I = \Bbbk \ldots 0 \wedge$

$j_{sa} = j_{sa}^{i} - 1 \wedge j \ldots^{k} < j_{sa} \ldots \wedge j_{sa}^{s} \ldots_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{s} \ldots, \Bbbk_1, j_{sa}^{ik}, \cdots, \ldots j_{sa}, \Bbbk_3, j_{sa}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \ldots s + \Bbbk \wedge$

$\Bbbk_z: \ldots 3 \wedge \Bbbk = \ldots_1 \ldots \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=\boldsymbol{l}_{ik}+\boldsymbol{n}-D}^{\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}^{ik}-D-s-1} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{(\ )} \sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l} + j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s - \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik} + 1)!}{(j_s + k - j_{ik} - 1)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l_i}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_s}+j_{sa}^{ik}-k+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \;\;)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} \;\; n_s - j_i)!} \cdot$$

$$\frac{(\;\;-1)!}{(n_s + \;\; - \boldsymbol{n} - \;\; - j_i)!} \cdot$$

$$\frac{(\;\; k - 1)!}{j_s - k \;\;)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} \;\; - j_{sa}^{ik} \;\;)!}{(j_s + \boldsymbol{l_{ik}} \;\; - \boldsymbol{l_s}) \;\; (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} \;\;_{a} - \boldsymbol{l_{sa}} \;\; s)!}{(\;\; + \boldsymbol{l_i} - j_i - \boldsymbol{l_s}\;\;)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \;_i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\;\;)}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{\boldsymbol{l_{ik}} - \;_i\boldsymbol{l} + 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\;\;)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - \;_i\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - \right.}$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!}$$

$$\frac{(D - \boldsymbol{l})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=}^{D+\boldsymbol{l_s}+s-\ } \sum_{ (\ -j_{sa}^{ik}+1) }^{(\ )}$$

$$\sum_{j_{ik}= n+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa} \ -k+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{(n_i-\ 1)} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + \ + j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge s = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$fz S_{j_s, j_{ik}, j^{sa}, j_i} \sum_{(j_s=1)}^{i^{l-1}} \sum_{(j_s=2)}^{(D-s)}$$

$$\sum_{j_{ik}=l_{ik}-D}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{sa}-j_{sa}^{ik})} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\sum_{n_i=n}^{n} \sum_{(n_{is}=n+\Bbbk_?+1)}^{(n_i-?1)} \sum_{n_{ik}=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}}^{\boldsymbol{l_{ik}}-k+1} \sum \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}} \sum \sum_{n_{sa}=\mathbb{k}_3-j^{sa}+1} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(\ldots - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}+$$

$$\sum_{k=\,_il}^{(\;)}\sum_{(j_s=1)}$$

$$\sum_{j_{ik}=l_{ik}+n-D}^{l_{ik}-\,_il+1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)}\sum_{=l_i+n-D}^{l_i-\,_il+}$$

$$\sum_{n_i=n+}^{n}\sum_{ik=n+\Bbbk_2+\Bbbk_3-}^{(n_i-j_{ik}-+1)}$$

$$\sum_{n_{sa}=}^{+j_{ik}-j^{sa}-\Bbbk_2}\sum^{sa+j^{sa}-j_i-\Bbbk_3}_{-j^{sa}+1}{}^{(\;+1)}_{i+1)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}+j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(\;-j_{ik}\;)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(\;-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!}\cdot$$

$$\frac{(l_{ik}-l_s-j_{sa}^{ik}+1)!}{(l_{ik}-j_{ik}-l_s+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}-$$

$$\sum_{k=1}^{D+l_s+s-n-l_i}\sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_i - j_i - j_{sa}^{s}\right)!} \cdot$$

$$\frac{-k-1)!}{(\boldsymbol{l}_s - j_s - 1)! \cdot (j_s - 2} \cdot$$

$$\frac{(D-)!}{(D- j_i - \boldsymbol{n} - l_{ik} - \boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} + j^{sa} + j_{sa}^{ik} - \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + - s \wedge + s - \leq j_i < \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_s - j_{sa} > \boldsymbol{l_{ik}} \wedge + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa} - 1 \wedge j_{sa}^{ik} < - 1 \wedge j_{sa}^{s} < j - 1 \wedge$

$\boldsymbol{s}: (j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i})$

$s \geq \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3, \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=s+1}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l}_{ik}-k-j_{sa}^{ik}+1)!}{(j_s+l-j_{ik}-k)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l}_{sa}+j_{sa}^{ik}-\boldsymbol{l}_{ik}-j_{sa})!}{(j_{ik}+\boldsymbol{l}_{sa}-j^{sa}-\boldsymbol{l}_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_s=2)}^{(\boldsymbol{l}_s-k+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l}_{ik}-k+1}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)}\sum_{j_i=\boldsymbol{l}_s+s-k+1}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} -}$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{- 1)!}{(n_s + - \boldsymbol{n} - - j_i)!} \cdot$$

$$\frac{(k - 1)!}{j_s - k} \cdot (j_s - 2)!$$

$$\frac{(\boldsymbol{l_{ik}} - j^{ik}_{sa} }{(j_s + \boldsymbol{l_{ik}} - \boldsymbol{l_s}) \cdot (j_{ik} - j_s - j^{ik}_{sa} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{s} - \boldsymbol{l_{ik}} - _{sa})!}{(j_{ik} + \boldsymbol{l_{s}} - j^{sa} - \boldsymbol{l_{ik}}) \cdot (j^{sa} + j^{ik}_{sa} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {_i}\boldsymbol{l}} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{ik}_{sa}}^{\boldsymbol{l_{ik}} - {_i}\boldsymbol{l}+1} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=s}^{\boldsymbol{l_i} - {_i}\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdots} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j^{ik}_{sa} \; 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdots - j^{ik}_{sa})!}$$

$$\frac{\left(\boldsymbol{l_{sa}} + j^{ik}_{sa} - \boldsymbol{l_{ik}} \cdots\right)}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdots + j^{ik}_{sa} - j_{ik} \cdots)!} \cdot$$

$$\frac{(D \cdots \boldsymbol{l_i})!}{\cdots + j \cdots \boldsymbol{n} - \boldsymbol{l_i} \cdots (\boldsymbol{n} - j_i)!}$$

$$\sum^{l-1}_{\cdots} \sum_{(j_s = j_{ik} - j^{ik}_{sa} + 1)}$$

$$\sum_{j_{ik} = j \cdots + j^{ik}_{sa} - j_{sa}} \sum^{(\;)}_{(j^{sa} = j_i + j_{sa} - s)} \sum^{\boldsymbol{l_s} + s - k}_{j_i = s + 1}$$

$$\sum^{n}_{n_i = \boldsymbol{n} + \Bbbk} \sum^{(n_i - j_s + 1)}_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum^{(\;)}_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j^s_{sa})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - 2 \cdot j^s_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k={}_i l} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{=n_{sa}+j^{sa}-j_i}^{(\ )}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{ik}^{ik} - j_{ik} - j_i \ \cdots - \Bbbk_3 \quad \cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (n + 2 \cdot j_s \ j_{sa}^{ik} - j_{ik} \quad 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \quad - \boldsymbol{l_i})! \cdot (\boldsymbol{n}-s)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j \quad j_{sa}^{ik} - 1 \leq j \quad \leq j^{sa} \quad j^{ik} \quad j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j \quad - s \wedge j^{sa} + \quad j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \quad \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} \quad \boldsymbol{l_{ik}} \wedge \quad + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D \geq \boldsymbol{n} < n \quad = \Bbbk > \quad \wedge$$

$$j_{sa} \equiv j_{sa}^i - 1 \wedge j_s \quad j_{sa} - \quad j_{sa}^s \quad j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s \quad \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk \quad j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = \quad + \Bbbk \wedge$$

$$\Bbbk \quad \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{\left(j_{ik} - j_{sa}^{ik} + 1\right)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-1)!}{(j^{sa}-1)!\cdot(n_{sa}+j^{sa}-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_s + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - j_{ik} - j_{sa}^{ik} + 1)!}{(j_s + j_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k= \; _il} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{l_{ik}- \; _il+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}- \; _il+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l_{ik}} - \quad {}^{ik} +}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l}_s + 1)! \cdot (\quad j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \quad)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} \quad)! \cdot (\quad _{sa} + j_{sa} \quad j_{ik} - j_{sa})!}$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \quad - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{k = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_{sa} + 1)}^{(\boldsymbol{l_s} + j_{sa} - k)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\,_i l} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j\;\;j_{sa})}^{(\;)} \sum_{j_i=s}$$

$$\sum_{n_i}^{n} \sum_{(n_{ik}=n_i-j_{ik}\;\;+1)}^{(\;)}$$

$$\sum_{=n_{ik}+j_{u\;\;sa}-\Bbbk_2}^{(\;)} \sum_{(\;\;\;-j_i-\Bbbk_3)}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i\;\;\Bbbk_1 - \Bbbk_2\;\;\Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2\;\;\Bbbk_3)! \cdot (\boldsymbol{n} + 2\;\;+ j_{sa}^{ik}\;\;-j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D\;\;s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s\;\;\;\;\wedge$

$1 \leq j_s \leq j_{ik} - j_s^{ik} + 1 \wedge j_s + j_{sa}^{\;\;}\;\;1 \leq j_{ik} \leq\;\;^a + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} +\;\;- j_{sa}^{ik} \leq j^s\;\;\;\;j_i + j_{sa} - s \wedge\;\;\;\;- j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 >\;\;\wedge \boldsymbol{l_{sa}} +\;\;^{ik} - j_{sa}\;\;\boldsymbol{l_{ik}} \wedge l_i + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq\;\;< n \wedge I = \Bbbk\;\;0 \wedge$

$_{sa} = j_{sa}^i\;\;1 \wedge j_{sa}^{ik} < j_s\;\;1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_s^s\;\;\;\;, \Bbbk_1, j_{sa}\;\;\;_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s}\;\;\;\;s + \Bbbk \wedge$

$\;\;z =\;\;\Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{\,_i l - 1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_i}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i - 1)}{(j_s - 2) \cdot (n_i - n_{is} - 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1) \cdot (n_{is} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1) \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1) \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=l_s+j_{sa}^{ik}-k+1}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_{ik} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{ik} - \boldsymbol{l}_s - j_{sa}^{ik} + 1)!}{(j_s - \boldsymbol{l}_{ik} - j_{ik} - \boldsymbol{l}_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa}^{ik} - \boldsymbol{l}_{ik} - j_{sa})!}{(j_{ik} + \boldsymbol{l}_{sa} - j^{sa} - \boldsymbol{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\boldsymbol{l}_{ik}-\ _i\boldsymbol{l}+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l}_{sa}-\ _i\boldsymbol{l}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\ \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-\ldots)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(l_s-l_s-j^{ik}+1)!}{(l_{ik}-l_s-1)!\cdot(l_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_s-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_s)!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+\ldots-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{\boldsymbol{l}^{l-1}}\ \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k}\ \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )}\ \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\ \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )}\ \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^s)!}\cdot$$

$D > \boldsymbol{n} < n$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\ _il}^{\ (\ )} \sum_{(j_s=1}^{}$$

$$\sum_{j_{ik}=j_{sa}} \sum_{sa=j_s} \sum_{j_i=s}$$

$$\sum_{\mathbb{k}\ (n_{ik}}^{n} \sum_{}^{(\ )} {}_{j_{ik}-\mathbb{k}_1+1)}$$

$$\sum_{n_{sa}=n_{ik}} \sum_{j^{sa}-\mathbb{k}_2} \ {}_{n_{sa}+j^{sa}-j_i-\mathbb{k}_3)}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - \ - j_i - \mathbb{k}_1 - \ _2 - \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \ _{k_2} \ \mathbb{k}_3)! \cdot (\ + 2 \cdot j_s \ _{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq \ + s - \boldsymbol{n} \wedge$

$1\ j_s \leq j_{ik} \ ^{ik} + 1 \ + j_{ik}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} \ j_{sa} - j_{sa}^{ik} \leq j \ \leq j_i + j_s \ \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa} \ 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} \ j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \ = \mathbb{k} \ \wedge$

$j_s \ j_{sa} \ 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^s, \cdots, \ j_{sa}^{ik}, \cdots, \mathbb{k}_2, j_{sa}, \mathbb{k}_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{\ _il-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_{s}-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i-1)}{(j_s-2) \cdot (n_i-n_{is}+1)!}$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1) \cdots j_s-n_{is}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)}{(j^{sa}-j_{ik}-1) \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1) \cdot (n_{sa}+j^{sa}-n_s-j_i)!}$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!}$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!}$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!}$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{l_{ik}-\ _i l+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-\ _i l+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1 - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - l_s - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - l_s + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + j_{sa} - j^{sa}) \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \_\_\_)}$$

$$\sum_{k=\_}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=\_} \sum_{(j^{sa}=j_{sa})} \sum_{j_i=s}$$

$$\sum_{n_i=\_}^{n} \sum_{(n_{ik}=n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{\_=n_{ik}+j_{ik}-\_-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_\_ \_ 2 \cdot j_s + j_{sa}^{ik} \_ - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \_\_ - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \_ \_ D - \boldsymbol{n} \_ \_ \wedge$$

$$1 \leq j_\_ \_ \_ j_{ik} - j_{sa}^{ik} + \_ \_ j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - \_^{\_k} \leq j^{sa} \leq \_ + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} \_ \_ + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} \_ \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$\_ \_ \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$D > \boldsymbol{n} < n$$

$$\mathbb{k}_z: z = 3 \land \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}
$$

$$
\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-L}^{\boldsymbol{l_s}+s-k}
$$

$$
\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik} \ldots +\mathbb{k} \ldots j_{ik}+1}^{n_{is}+j_s \ldots k-\mathbb{k}_1}
$$

$$
\sum_{\ldots}^{(n_{ik}+j_{ik}- \ldots \mathbb{k}_2)} \sum_{\ldots =\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}- \ldots \mathbb{k}_3}
$$

$$
\frac{(n_i - n_{is} \ldots)}{(j_s - 2) \ldots (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} \ldots {}_{ik} - \mathbb{k}_1 \ldots 1)!}{(j_{ik} \ldots j_s - 1)! \cdot (n \ldots + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot
$$

$$
\frac{\ldots - n \ldots - \mathbb{k}_2 - 1)!}{(j^{sa} \ldots - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot
$$

$$
\frac{(n_{sa} - n_s - 1)!}{\ldots_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$
\sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}
$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s\ -j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i\ \ -1)}{(j_s-2)\cdot(n_i-n_{is}\ \ +1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk\ -1)!}{(j_{ik}-j_s-1\ +j_s-n\ \ -j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n\ -\Bbbk_2-\ )}{(\ \ a-j_{ik}-1\ )\cdot(n_{ik}+\ -n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(\ _{sa}-n_s\ 1)!}{(j_i-j^{sa}-1\ )\cdot(n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=\ _{i}l}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{l_{ik}-\ _{i}l+1} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-\ _{i}l+1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(l_{ik}-j_{sa}^{ik}+1)!}{(l_{ik}-l_s+1)!\cdot(j_{ik}-j_{sa}^{ik})!} \cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+j_{sa}-j)\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\;)} \sum_{j_i=l_i+\boldsymbol{n}-D}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n}}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j^{ik} - 1 \wedge$

$\boldsymbol{s} \colon \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z \colon z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \quad \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{\boldsymbol{il}-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\quad k - 1)}{(\boldsymbol{l_s} - \quad k + \quad - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{s} + 1)!}{(j_s + \boldsymbol{l_{ik}} - \quad)! \cdot (j_{ik} - \quad - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\quad + j_{sa}^{ik} \quad \boldsymbol{l_{ik}} - j_{sa})}{(j_{ik} + \boldsymbol{l_{sa}} - j^{s} \quad \boldsymbol{l_{ik}})! \cdot (\quad + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D \quad \boldsymbol{l_i})!}{(D + \quad - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{_i \boldsymbol{l} - 1} \sum_{(j_s = 2)}^{(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{\quad_{ik} - k + 1} \sum_{(j^{sa} = \boldsymbol{l_s} + j_{sa} - k + 1)}^{(\boldsymbol{l_i} + j_{sa} - k - s + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s \cdots}$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s \cdots_{sa}^{ik} + 1)!}$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \cdots)}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \cdots_{sa} + j_{sa}^{ik} - j_{ik} \cdots_{sa})!} \cdot$$

$$\frac{(D \cdots \boldsymbol{l_i})!}{\cdots + j \cdots \boldsymbol{n} - \boldsymbol{l_{ik}} \cdots (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=\,_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik} \cdots_{ik} + \boldsymbol{n} - D}^{\boldsymbol{l_{ik}} \cdots+1} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_i}+j_s \cdots_i\boldsymbol{l}-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot (j_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j}$$

$$\sum_{k=}^{D + l_s + s - n - l_i} \sum_{(j_s = j}^{()}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{\boldsymbol{n} + j_{sa} - D}^{(l_s +)} \sum_{j = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{(+ 1)} \sum_{\boldsymbol{n} + \mathbb{k} - j_s}^{} \sum_{ik = n_{is} + j_s - j_{ik} - \mathbb{k}_1}$$

$$\sum_{(n + j_{ik} + j a - \mathbb{k}_2)}^{()} \sum_{n_s = n_{sa} + j^{sa} - j_i - \mathbb{k}_3}$$

$$\frac{(n_i + 2 \cdot j_s + j - j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \boldsymbol{n} \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s,\, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{\,_i l - 1} \sum_{(j_s = 2)}^{(j_{ik} - j_{sa}^{ik}}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{\boldsymbol{l_i} + \boldsymbol{n} + j_{sa}^{ik} - D - s - 1} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + \quad D - s)}^{(\boldsymbol{l_i} + j_{sa} - k - \quad)} \sum_{j_i = j^{sa} + s}$$

$$\sum_{n_i = \boldsymbol{n}}^{n} \sum_{(n_{is} = \boldsymbol{n} + \quad +1)}^{(\quad +1)} \sum_{n_{ik} = \boldsymbol{n} \quad}^{+ j_s - j_{ik} - \Bbbk_1} {}_{j_{ik} + 1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} \quad_3 - j^{sa} + 1)}^{ik + j_{ik} - \quad \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(\quad_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \quad_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(\quad^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_i}+j_{sa}-k-s+1)} \sum_{j_i{}^{sa+s-j_{sa}}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3}^{n_{is}+j_s-\Bbbk_1}{}_{+1}$$

$$\sum_{(n_{sa}-\Bbbk_3-j^{sa}+}^{(n_{ik}+j_{ik}-j^{sa}-} \sum^{n_{sa}+j^{sa}-j_i-\Bbbk}{}_{j_i+1}$$

$$\frac{(-n_{is}-1)!}{(j_s-2)! \cdot (-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is}-n-\Bbbk_1-1)!}{(j_{ik}-j_s-1)! \cdot (n+j_s-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_i-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=l_s+j_{sa}^{ik}-k+1}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_i+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-)}^{(n_{ik}+j_{ik}-j^{sa})} \sum_{n_s=\boldsymbol{n}-j_i+}^{+j^s+j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-j_s+1)!}\cdot$$

$$\frac{(-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(l_{ik}-l_s-j_{sa}^{ik}+1)!}{(j_s+l_{ik}-j_{ik}-l_s)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\,_il}^{(\ )} \sum_{(j_s=1)}^{(\ )}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\,_il+1} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{\left(\boldsymbol{l_i}+j_{sa}-\,_il-s+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\quad j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{(n_i-n_{ik}-\quad 1)!}{(j_{ik}-2)! \cdot (n_i \quad _{ik}-j_{ik}-\quad 1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2 \quad)!}{(j^{sa}-j_{ik}-1)! \quad _k-n_{sa} \quad j^{sa}-\Bbbk_2)!}$$

$$\frac{(n \quad -n_s-1)}{(j_i-j \quad -1)! \cdot \quad +j^{sa}-n_s-j_i)!}$$

$$\frac{(n_s-1)!}{(n_s \quad j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!}$$

$$\frac{(\,_{ik}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)! \cdot \left(j_{ik}-j_{sa}^{ik}\right)!}$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(\quad +\quad -j^{sa}-\boldsymbol{l_{ik}})! \cdot \left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_s=j_{ik}-j_{sa}^{ik}+1\right)}^{(\quad)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s}^{}\right)!}$$

$$\frac{(\boldsymbol{l_s} - k - \quad)!}{(\boldsymbol{l_s} - j_s - k + 1)! \quad (\quad_s - 2)!}$$

$$\frac{(D - \quad)}{(D + j_i \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} \quad i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j \quad + j_{sa}^{ik} - \quad \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \quad \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \quad \boldsymbol{l_i} + j_{sa} - s = \quad_a \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + \quad$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j \quad < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \{j_{sa}^s \quad \cdot, \Bbbk \quad j_{sa}^{ik}, \cdots \quad , j_{sa}, \Bbbk_3, j_{sa}^i\}$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} = s \quad \Bbbk \wedge$

$\Bbbk_z : \quad = 3 \wedge \Bbbk = \Bbbk_1 \quad \Bbbk_2 + \Bbbk_3$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_i}+\boldsymbol{n}-D-s)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_i}+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_s + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(\; + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1)!}{(j_s + \; - j_{ik} - 1)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_i}+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} -)} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} \quad n_s - j_i)!} \cdot$$

$$\frac{-1)!}{(n_s + \quad - \boldsymbol{n} - \quad - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{\quad _s - k \quad)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} \quad - j_{sa}^{ik} \quad)!}{(j_s + \boldsymbol{l_{ik}} \quad _k - \boldsymbol{l_s}) \quad (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{s} \quad - \boldsymbol{l_{ik}} - _{sa})!}{(j_{ik} + \boldsymbol{l_{s}} \quad - j^{sa} - \boldsymbol{l_{ik}}) \quad (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k= \ _i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{\boldsymbol{l_{ik}} - \ _i\boldsymbol{l} + 1} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s)}^{(\boldsymbol{l_i} + j_{sa} - \ _i\boldsymbol{l} - s + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} }$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} \quad 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \quad - j_{sa}^{ik})!}$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \quad \right)}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \quad + j_{sa}^{ik} - j_{ik} \quad)!} \cdot$$

$$\frac{(D \quad \boldsymbol{l})!}{ + j_i \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{D + \quad s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{\quad _s = \boldsymbol{l_i} + \boldsymbol{n} - D - s + 1}^{(\quad 1)}$$

$$\sum_{=j_s + j_{sa}} \sum_{= j_{ik} + j_{sa} - j_{sa}^{ik})} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$$1 \le j_s \le j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \le j_i \le \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \le D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$$

$$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} \colon \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \ge 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z \colon z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$
{}_{\Gamma_z} S_{j_s, j_{ik}, j_{sa}, j_i} = \sum_{k=1}^{j\boldsymbol{l_s}-(j_{ik}-j_{sa}^{ik}+1)} \sum_{(j_s=2)}
$$

$$
\sum_{j_{ik}=\boldsymbol{l_{ik}}-D}^{sa+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}-s)} \sum_{j_i=\boldsymbol{l_{sa}}+\boldsymbol{n}+s-D-j_{sa}}^{\boldsymbol{l_s}+s-k}
$$

$$
\sum_{n_i \cdots +\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}
$$

$$
\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}
$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - \ldots\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})\ldots}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\ldots - j_i)!}$$

$$\sum_{k=1}\quad \sum_{(j_s=2)}^{(\ldots k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}\ldots-D}^{\boldsymbol{l_{ik}}-k+1\ldots} \quad (j^{sa}=\ldots_{sa}-s) \quad \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_s}\ldots-k-j_{sa}+1}$$

$$\sum_{n_i\ldots\Bbbk}^{n} \quad (n_{is}=\boldsymbol{n}+\Bbbk\ldots+1) \quad \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{\ldots_{ik}-j^{sa}-\Bbbk_2} \quad \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(j_s + l_{ik} - j_{ik} - l_s\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{()} \sum_{(j_s=1)}^{()}$$

$$\sum_{j_{ik}=l_{ik}+n-D}^{l_{ik}- _i l+1} \sum_{(\ldots -s)}^{()} \sum_{j_i= n+s-D-j_{sa}}^{l_{sa}+s- _i l - j }$$

$$\sum_{n_i=n+\Bbbk_1}^{()} \sum_{(\ldots =n+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{()}$$

$$\sum_{n_{ik}+\ldots \Bbbk_3-j^{sa}+1}^{n_{ik}+ j^{sa}-\Bbbk_2} \sum_{(n_s=n-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(\ldots_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{s} \ldots j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{(l_{ik} - j_{ik} - l_s + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=l_{sa}+\boldsymbol{n}+s-D-}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-)}^{(\ )} \sum_{=n_{sa}+j^{sa}-j_i}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} \quad -\Bbbk_2 \quad -2\cdot j_{sa}^{s})!}{(n_i \quad \boldsymbol{n} - \Bbbk_1 \quad \Bbbk_2 \quad)} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \quad + j_{sa}^{ik} \quad - j_i - 2\cdot j_{sa}^{s})!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l \quad j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge l_s \quad -\boldsymbol{n} + 1 \wedge$

$1 \quad j_s \leq j_{ik} \quad j_{sa}^{ik} + 1 \quad + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j \quad \leq j_i + \quad \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$l_{ik} - j_{s} + 1 > l_s \wedge l_{sa} \quad j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + j_{sa} - \boldsymbol{n} \quad l_{sa} \leq D \quad l_s + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \quad \boldsymbol{n} \quad \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^{i} - \quad \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s} : (j_{sa} \quad \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=l_{ik}+n-D}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=l_{sa}+n-D)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-\,\,\,1)}^{(n_{ik}+j_{ik}-j^{sa}}\sum_{n_s=n-j_i+}^{+j^{s}\,\,\,j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is}-1)!}{(j_s-2)! \cdot (n_{is}+j_s+1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(n_{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(n_s-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!} \cdot$$

$$\frac{\left(l_{ik}-l_s-j_{sa}^{ik}+1\right)!}{(j_s+l_{ik}-j_{ik}-l_s)!\cdot\left(j_{ik}-j_s-j_{sa}^{ik}+1\right)!} \cdot$$

$$\frac{\left(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa}\right)!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!} +$$

$$\sum_{k=1}^{_i l - 1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s \cdots -j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i \cdots -1)}{(j_s-2) \cdots (n_i-n_{is} \cdots +1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk \cdots -1)!}{(j_{ik}-j_s-1 \cdots +j_s-n \cdots -j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n \cdots -\Bbbk_2 \cdots }{(\cdots {}^{a}-j_{ik}-1 \cdots (n_{ik}+ \cdots -n_{sa}-j^{sa}-\Bbbk_2)!} \cdot$$

$$\frac{(\cdots {}_{sa}-n_s \cdots 1)!}{(j_i-j^{sa}-1 \cdots (n_{sa}+j^{sa}-n_s-j_i)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=\,_il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\,_il+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-\,_il+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - \Bbbk - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - l_s - j_{sa}^{ik} + 1)!}{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} + 1)! \cdot (j_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} + \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} - j_{sa} - j_{sa}^{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n}}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} < j^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \quad \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s \qquad)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\qquad k - 1 \qquad)}{(\boldsymbol{l_s} - \qquad - k + \qquad - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa} + 1)!}{(j_s + \boldsymbol{l_{ik}} - \qquad)! \cdot (j_{ik} - \qquad - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\qquad_a + j_{sa}^{ik} \qquad \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} \qquad \boldsymbol{l_{ik}})! \cdot (\qquad + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D \qquad \boldsymbol{l_i})!}{(D + \qquad - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{\boldsymbol{l_{sa}} + \boldsymbol{n} + j_{sa}^{ik} - D - j_{sa}}^{\boldsymbol{l_s} + \qquad - k} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\boldsymbol{l_{sa}} - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdots)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k \cdots 1)!}{(\boldsymbol{l_s} - j_s - k + 1) \cdots (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{s\cdots} - 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} \cdots (j_{ik} - j_s \cdots + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \cdots)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} \cdots (\cdots_{sa} + j_{sa} \cdots j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i}) \cdots}{(D + j_i \cdots - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\cdots-j_{sa}^{ik}-k+1}^{\cdots-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + \right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - - j_{sa}\right)!}$$

$$\frac{(D)!}{(D + j - \boldsymbol{n} - \boldsymbol{l_i})! \cdot ()!} +$$

$$\sum \sum_{(j_s = 1)}^{()}$$

$$\sum_{i_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{\boldsymbol{l_{ik}} - } \sum_{(= \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{\left(\boldsymbol{l_{sa}} + 1\right)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = \boldsymbol{l_{sa}} + \boldsymbol{n} + j_{sa}^{ik} - D - j_{sa}}^{\boldsymbol{l_s} + j_{sa}^{ik} - k} \sum_{(j^{sa} = \ \ + j_{sa} - j_{sa}^{ik})}^{(\ )} \sum$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{i\ } + \Bbbk - j_{s})}^{(n_i - j_s + 1)} \sum$$

$$\sum_{(n_{sa} = n_{ik} + \ \ + j^{sa} - \Bbbk_2)}^{(\ )} \sum$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{s\ } - j_{ik} - j_i - \ \ - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s}\right)!}{\left(n_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3\right)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < \ \ \wedge \boldsymbol{l_s} \leq D - \ + 1 \wedge$

$1 \leq \ \ \leq j_{ik} - j_{s\ } \ \ \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - \ ^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\ - j^{ik} \ \ 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^{i} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^{i}\right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(l_{sa}+\boldsymbol{n}-D-j_{sa})}
$$

$$
\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(l_{sa}-k+1)} \sum_{j_i=}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+)}^{(n_i-j_s+1)} \sum
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n - \Bbbk_1 - 1)!}{(n_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_i - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot
$$

$$
\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=\boldsymbol{l_{sa}}+\boldsymbol{n}-D-j_{sa}+1)}^{(\boldsymbol{l_s}-k-1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1} {}_{-j_{ik}+1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-}^{(n_{ik}+j_{ik}-j^{sa}} {}_{+j^s} {}_{j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i \qquad j_s + 1)!} \cdot$$

$$\frac{ n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-_{i}\boldsymbol{l}+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(l_{sa}-_{i}l+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik})}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\dots-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk\dots)}$$

$$\frac{(n_i-n_{ik}-\dots 1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\dots-1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2\dots)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}-n_{sa}-\dots j^{sa}-\Bbbk_2)!}$$

$$\frac{(\dots-n_s-1)\dots}{(j_i-j\dots-1)!\cdot(\dots+j^{sa}-n_s-j_i)!}$$

$$\frac{(n_s-1)!}{(n_s\dots j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)!\cdot\left(j_{ik}-j_{sa}^{ik}\right)!}$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(\dots+\dots-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=\boldsymbol{l_{sa}}+\boldsymbol{n}-D-j_{sa}+1)}^{(\boldsymbol{l_s}-k-1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{(\ \ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s}^{...})!}$$

$$\frac{(\boldsymbol{l_s} - k - ...)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (... j_s - 2)!}$$

$$\frac{(D - ...)}{(D + j_i ... \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} ... j_i)!}$$

$$((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j ... + j_{sa}^{ik} - j ... \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq ... \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} ... + j_{sa} - s > ...) \vee$$

$$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + ...$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s ... {}_{sa}^{ik} - 1 \leq j_{ik} ... {}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - ... \wedge j^{sa} + s ... j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_i} - ... 1 > \boldsymbol{l_s} \wedge$$

$$\boldsymbol{l_i} \leq D + s - \boldsymbol{n} ... \wedge$$

$$D \geq ... < n \wedge I = \Bbbk ... 0 \wedge$$

$$j_{sa} = j_{sa}^i ... \wedge j_{sa}^{ik} < j_s ... - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \{ j^s ..., \Bbbk_1, j_{sa}, ... \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = ... + \Bbbk \wedge$$

$$... = ... \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i l-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(j_i+j_{sa}-s)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_i}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s -j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i\quad -1)}{(j_s-2)\quad(n_i-n_{is}\quad+1)!}\cdot$$

$$\frac{(n_i\quad -n_{ik}-\Bbbk\quad 1)!}{(j_{ik}-j_s-1)\quad(n_i-n_{is}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)\quad(n_{ik}+\quad-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s\quad 1)!}{(j_i-j^{sa}-1)\quad(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1\right)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})!\cdot\left(j_{ik}-j_s-j_{sa}^{ik}+1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_il-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_{s}=-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{l_{ik}-\,_il+1} \sum_{(j^{sa}=j_{sa})}^{\left(l_{sa}-\,_il+1\right)} \sum_{j_i=s}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{ik}-\text{...}1)!}{(j_{ik}-2)!\cdot(n_i-\text{...}_{ik}-j_{ik}-\Bbbk_1-1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-\text{...})!}{(j^{sa}-j_{ik}-1)!\cdot(\text{...}_k-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{\text{...}}-n_s-1)!}{(j_i-j\text{...}-1)!\cdot(\text{...}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s\,\text{...}_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\text{...}_{ik}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(\text{...}_{sa}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{\,_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=s+1}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$$\frac{(\boldsymbol{l_s} - k - \ )!}{(\boldsymbol{l_s} - j_s - k + 1)! \ (\ _s - 2)!}$$

$$\frac{(D - \boldsymbol{l_i}) \ }{(D + j_i - \ - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \ )!} -$$

$$\sum_{k} \sum^{(\ )}_{(\ j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + \ + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \ \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$$((D \geq \boldsymbol{n} \ \ \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$$

$$\ _{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \vee$$

$$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_i} - s + 1 > \boldsymbol{l_s} \wedge$$

$$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \big\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \big\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$\epsilon_z S_{j_s, j_{ik}, \cdots, j_i} = \sum_{k=1}^{} \sum_{(j_s=2)}^{(l - j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}} \sum_{sa=j_{sa}+1)}^{(l_s+j_{sa})} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-k+1}$$

$$\sum_{n=+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - \ldots\right)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - \ldots^{sa} - s)!} \cdot$$

$$\frac{(D \ldots)!}{(D + j_i \ldots \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} \ldots i)!} +$$

$$\sum \ldots \sum_{(j_s=2)}^{i^{l-1}\,(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}} - k} \sum_{(j^{sa}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}} \ldots 1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{n \ldots a + \Bbbk}^{n \ldots} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i - j \ldots)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} -)!}$$

$$\frac{(D - l_i)}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=\ _il} (j_s=$$

$$\sum_{j_{ik}=} \sum_{(j^{sa}=j_{ik}-j_{sa}^{ik})}^{(l_{sa}}\ \sum_{j_i=j^{sa}+s-j_{sa}}^{\ _il+1}$$

$$\sum_{n_i=\ +k} \sum_{(n_{ik}=n+k_2+k_3-j_{ik}+1)}^{-j_{ik}-k_1+1}$$

$$\sum_{n_{sa}=n+k_3-j^{sa}+1}^{\ _{ik}+j_{ik}-j^{sa}-k_2} \sum_{(n_s=n-j_i+1)}^{(n_{sa}+j^{sa}-j_i-k_3)}$$

$$\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(l_{ik} - j_{ik} - l_s + 1)! \cdot (j_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{\boldsymbol{_i l} - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_{sa} + \ldots)}^{(\boldsymbol{l_s} + j_{sa} - k)} \ldots - j_{sa}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{\ldots} = \ldots + \mathbb{k})}^{(n_i - j_s + 1)} \sum_{n_{ik} = \ldots j_s - j_{ik} - \mathbb{k}_1}$$

$$\sum_{(n_{sa} = n_{ik} + \ldots - j^{sa} - \mathbb{k}_2)}^{(\quad)} \sum_{\ldots n_{sa} + j^{sa} - j_i - \mathbb{k}_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{\ldots} - j_{ik} - j_i - \ldots - \mathbb{k}_2 - \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i \ldots \ldots - \mathbb{k}_1 - \ldots_2 - \mathbb{k}_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \boldsymbol{_i l}} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}^{(\quad)} \sum_{j_i = s}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{ik} = n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \quad)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \quad\quad) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + \quad - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} \quad s - j_{sa} \leq j_i \leq \quad \wedge$

$\boldsymbol{l_i} - s + 1 > \boldsymbol{l_s} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = \quad - 1 \wedge j_{sa}^{ik} \quad - 1 \wedge j_{sa}^s < \quad \wedge$

$\boldsymbol{s}. (j_{sa}^s, \cdots, \Bbbk_1, j \quad \cdots, \Bbbk_2, \quad \Bbbk_3, j_{sa}^i)$

$s \geq \quad \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\quad_z: z = \quad \Bbbk = \Bbbk_1 + \Bbbk \quad + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$D > \boldsymbol{n} < n$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (\ldots + j^{sa} - n_s - \ldots)!} \cdot$$

$$\frac{(n_s - 1)!}{(\ldots + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \ldots - j_{sa}^{ik} + 1)!}{(j_s + \ldots - j_{ik} - \ldots)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(\ldots + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_s}+j_{sa}^{ik}-k+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-s-j_{sa}^{ik}+1)!}{(j_s+s-j_{ik}-l)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(s+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{l_{ik}-\ _il+1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-\ _il+1)}\sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \quad \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - \boldsymbol{l}_s - j^{ik} + 1)!}{(\boldsymbol{l}_{ik} - \boldsymbol{l}_s - 1)! \cdot (\boldsymbol{l}_s - j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l}_s + j_{sa}^{ik} - \boldsymbol{l} - j_{sa})!}{(j_{ik} + \boldsymbol{l}_{sa} - j^{sa} - 1)! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_s - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + s - j_i - \boldsymbol{l})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \quad \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l}_s + j_{sa}^{ik} - k} \quad \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \quad \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \quad \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i - j_s + 1)} \quad \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \quad \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \quad)}$$

$$\sum_{k=\quad}^{\quad} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=\quad}^{\quad} \sum_{(j^{sa}=j_{sa})}^{\quad} \sum_{j_i=s}^{\quad}$$

$$\sum_{n_i=\quad}^{n} \sum_{(n_{ik}=n_i - j_{ik} - \Bbbk_1 + 1)}^{\quad}$$

$$\sum_{\quad=n_{ik}+j_{ik}-\quad-\Bbbk_2}^{\quad} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{(n_{\quad} - 2 \cdot j_s + j_{sa}^{ik} - \quad - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$$\big((D \geq \boldsymbol{n} < n \wedge \quad < D + s \quad \boldsymbol{n} \wedge$$

$$1 \leq j_s \quad j_{ik} - j_{sa}^{ik} + 1 \quad j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j \quad \leq j^{sa} \leq \quad + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} \quad \quad + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}\big) \vee$$

$$(D \geq \boldsymbol{n} < \quad \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$\quad \quad j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_i} - s + 1 > \boldsymbol{l_s} \wedge$$

$$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \wedge$$

$D > \boldsymbol{n} < n$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \cdots, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i} \sum_{i_s=2}^{(l_s - k + 1)}
$$

$$
\sum_{j_{ik} = j_s + j_{sa}^{ik}}^{l_{ik} - k + 1} \sum_{j_{iv} + j_{sa} - j_s}^{(l_{sa} + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{i}
$$

$$
\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} + \Bbbk - j_s + 1)}^{(n_i - 1)} \sum_{n_x = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{-\Bbbk_1}
$$

$$
\sum_{(n_{sa} = \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(\cdots_k - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot
$$

$$
\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1 \right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1 \right)!} \cdot
$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - \ldots)}$$

$$\sum_{k=}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_s}^{l_{ik} - {}_il+1} \sum_{+j_{sa}-j_{sa}}^{(l_{sa} \quad +1)} \sum_{=j^{sa}+s-j_{sa}}^{l_i-}$$

$$\sum_{i=n+\Bbbk (}^{ (\quad +1)} \sum_{<n+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{}$$

$$\sum_{\Bbbk_3-j^{sa}+1}^{n_{ik}+ \quad j^{sa}-\Bbbk_2} \sum_{(n_s=n-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{{}_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{s} \quad - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(l_{ik} - j_{ik} - l_s + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s} {}_{\Bbbk_1}$$

$$\sum_{(\ =n_{ik}+j \ jsa-\Bbbk_2)}^{(\ )} \sum {}_{-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} \ j_i - \Bbbk_1 \ \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \ \ - \Bbbk_2 - \ )!} \cdot$$

$$\frac{1}{(\ + 2 \cdot j_s \ {}_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\ {}_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_i} - s + 1 > \boldsymbol{l_s} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1)) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_s < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \{j_s^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \Bbbk_3, j_{sa}^i\}$

$\boldsymbol{s} \ 6 \wedge \boldsymbol{s} = s \ \Bbbk \wedge$

$\Bbbk_z = 3 \wedge \Bbbk = \Bbbk_1 \ \Bbbk_2 + \Bbbk_3$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_il-1} \sum_{(j_s=2)}^{(j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(j_i + j_{sa} - s)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_s} + s - k}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{ik} - \Bbbk_2)!}$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik} + 1)!}{(j_s + l_{ik} - j_{ik} - k)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l_i}^{l-1}} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-l-j_{sa}^{ik}+1)!}{(j_s+l-j_{ik}-l)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{l_{ik}-\ _il+1}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-\ _il+1)}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(l_{ik} - l_s - 1)! \cdot (l_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(l_s + j_{sa}^{ik} - l_{sa} - j_{sa})!}{(j_i + l_{sa} - j^{sa} - l_s)! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_i - l_{sa} - s)!}{(j^{sa} + s - j_i - l_s)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n}}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n}$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + - j_{sa} \leq j_i \leq \wedge$

$\boldsymbol{l_i} - s + 1 > \boldsymbol{l_s} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + - \boldsymbol{n} - 1)) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} = j_{sa} - \wedge j_{sa}^{ik} < - 1 \wedge j_{sa}^s < j_s + 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^s, \cdots, \mathbb{k}_1, j_{sa}, \mathbb{k}_2, j_{sa}, j_s^i, \}$

$s \geq 0 \wedge = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 3 \wedge = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{\,_i l - 1} \sum_{(j_s=2)}^{(j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(\boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s - 1)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{is} = \boldsymbol{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \mathbb{k}_2 + \mathbb{k}_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \mathbb{k}_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l}_{ik}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l}_{ik}-j_{ik}-k)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l}_{sa}+j_{sa}^{ik}-\boldsymbol{l}_{ik}-j_{sa})!}{(j_{ik}+\boldsymbol{l}_{sa}-j^{sa}-\boldsymbol{l}_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_i+j_{sa}-\boldsymbol{l}_{sa}-s)!}{(\boldsymbol{l}_{ik}+\boldsymbol{l}_i-j_i-\boldsymbol{l}_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{\boldsymbol{l}^{l-1}}\sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l}_{ik}+\boldsymbol{n}-D}^{j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l}_s+j_{sa}-k)}\sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}+1)!}{(j_s+l_{ik}-j_{ik}-k)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(k+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{\boldsymbol{l}-1}\sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1}\sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)}\sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{ik} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_s + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - l - j^{ik}_{sa} + 1)!}{(j_s + l - j_{ik} - l) \cdot (j_{ik} - j_s - j^{ik}_{sa} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j^{ik}_{sa} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j^{ik}_{sa} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(l + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{l_{ik}-\ _il+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-\ _il+1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_{ik} - l_s - j^{ik} + 1)!}{(l_{ik} - l_s - 1)! \cdot (l_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(l_s + j_{sa}^{ik} - l_{sa} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_s)! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_s - l_{sa} - s)!}{(j^{sa} + s - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=l_i+\boldsymbol{n}+j_{sa}-D-s)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} \quad }$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_i} - s + 1 > \boldsymbol{l_s} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1)) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \boldsymbol{k} > 0 \wedge$

$j_{sa} = j_{sa} - \quad \wedge j_{sa}^{ik} < \quad - 1 \wedge j_{sa}^s < j_{s} \quad 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa} \quad , j_s^i \quad \wedge$

$s \geq 0 \quad \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \quad = \Bbbk_1 + \Bbbk \quad + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_il-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(\quad+j^{sa}-n_s\quad_i)!}\cdot$$

$$\frac{(n_s\quad1)!}{(\quad+j\quad-1)\cdot(\boldsymbol{n}-j_i)!}$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s\quad k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\quad-j_{sa}^{ik}+1)!}{(j_s+\quad-j_{ik}-\quad)\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}\quad j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(\quad+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{\boldsymbol{l}-1}\sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)}\sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (\ \ + j^{sa} - n_s - \ \ )!} \cdot$$

$$\frac{(n_s - 1)!}{(\ \ + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \ \ - j_{sa}^{ik} + 1)!}{(j_s + \ \ - j_{ik} - \ \ )! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(\ \ + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_s}+j_{sa}^{ik}-k+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(+j^{sa}-n_s-i)!}\cdot$$

$$\frac{(n_s-1)!}{(+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}--j_{sa}^{ik}+1)!}{(j_s+-j_{ik}-)\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{k}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=_{i}l}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{l_{ik}-_il+1}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(l_{sa}-_il+1)}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk)!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s -)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_s - \boldsymbol{l_s} - j^{ik} + 1)!}{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - 1)! \cdot (l_s - j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_s} + j_{sa}^{ik} - \boldsymbol{l_{sa}} - j_{sa})!}{(j_i + \boldsymbol{l_{sa}} - j^{sa} -)! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + - j_i - \boldsymbol{l})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n}}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n}$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \wedge$

$\boldsymbol{l_i} - s + 1 > \boldsymbol{l_s} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1)) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} = j_{sa} - \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa} + 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, \mathbb{k}_1, j_{sa}^{?}, \mathbb{k}_2, j_{sa}, ?, j_{?}^{i}, ?\}$

$s \geq 0 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_i}+\boldsymbol{n}-D-s)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\mathbb{k}_2+\mathbb{k}_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\mathbb{k}_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk)!}$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j+k-\Bbbk_2)!}$$

$$\frac{(n_s-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(+j^{sa}-n_s-i)!}\cdot$$

$$\frac{(n_s-1)!}{(+j_i-1)\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l}_{ik}--j^{ik}_{sa}+1)!}{(j_s+-j_{ik}-)!\cdot(j_{ik}-j_s-j^{ik}_{sa}+1)!}\cdot$$

$$\frac{(\boldsymbol{l}_{sa}+j^{k}_{sa}-\boldsymbol{l}_{ik}-j_{sa})!}{(j_{ik}+\boldsymbol{l}_{sa}-j^{sa}-\boldsymbol{l}_{ik})!\cdot(j^{sa}+j^{ik}_{sa}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_i+j_{sa}-\boldsymbol{l}_{sa}-s)!}{(+\boldsymbol{l}_i-j_i-\boldsymbol{l}_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{i^{l-1}}\sum_{(j_s=\boldsymbol{l}_i+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l}_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j^{ik}_{sa}-1}^{\boldsymbol{l}_{ik}-k+1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa})}^{(\boldsymbol{l}_{sa}-k+1)}\sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \Bbbk_2)!}$$

$$\frac{(n_s - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (+ j^{sa} - n_s - j_i)!} \cdot$$

$$\frac{(n_s - 1)!}{(+ j_i - 1) \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - - j_{sa}^{ik} + 1)!}{(j_s + - j_{ik} -) \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(+ \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_{\boldsymbol{i}}\boldsymbol{l}} \sum_{(j_s=1)}^{()}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{l_{ik}-\,_{\boldsymbol{i}}l+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(l_{sa}-\,_{\boldsymbol{i}}l+1\right)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-\,_{\boldsymbol{i}}l+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$\qquad D > \boldsymbol{n} < n$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-\Bbbk_2-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\Bbbk_2)!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-\cdots)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_{ik}-\boldsymbol{l}_s-j^{ik}+1)!}{(\boldsymbol{l}_{ik}-\cdots)!\cdot(\cdots-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l}_s+j_{sa}^{ik}-\cdots-j_{sa})!}{(j_i+\boldsymbol{l}_{sa}-j^{sa}-\cdots)!\cdot(j^{sa}+\cdots-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_i+j_\cdots-\boldsymbol{l}_{sa}-s)!}{(j^{sa}+\cdots-j_i-\boldsymbol{l}_\cdots)!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l}_s+s-\boldsymbol{n}-l_i}\sum_{(j_s=\boldsymbol{l}_i+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l}_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )}\sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n}}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$S_{j_s, j_{ik}, j^{\cdot}} = \sum_{k=1}^{l-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = \cdots + j_{sa}^{ik} - j_{sa}} \sum_{(\cdots = j_{sa} + 1)}^{(j_i + j_{sa} - s}\, {}^{l_{sa} + j_{sa} - k - s + 1} \sum_{j_i = s + 1}$$

$$\sum_{n_{\cdots} = \cdots + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s = j_{i} - j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-}^{(l_{sa}-1)} \sum_{(j^{sa}=j_{sa}+1)}^{l_i} \sum_{j_{i}+j_{sa}-k-s+2}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n+\Bbbk-j_s+}^{(n_{i}+1)} \sum_{n_{ik}=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{+\Bbbk-\Bbbk_1}$$

$$\sum_{(n_{sa}=}^{(n_{ik}-j^{sa}-\Bbbk_2}} \sum_{n_s=n-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(-j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k={_i}l}\sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}^{(\quad)}\sum_{j_i=}^{l_i-{_i}l+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+{-}j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^s}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(\quad j^{sa}\quad-\Bbbk_3)}$$

$$\frac{(\quad-\Bbbk_1\quad1)!}{(\quad-2)!\cdot\quad-n_{ik}\quad_1+1)!}\cdot$$

$$\frac{(n_{ik}-\quad-1)!}{(j^{sa}-j_{ik}-\quad)!\cdot(n_{ik}+\quad-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\quad-\Bbbk_3-1)!}{(j_i-j^s\quad1)!\cdot(n\quad+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(\boldsymbol{l_i}+j_{sa}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{{_i}\boldsymbol{l}-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)}\sum_{j_i=s+1}^{\boldsymbol{l_{sa}}+j_{sa}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$$\frac{(l_s - k - 2)!}{(l_s - j_s - k + 1)! \cdot (l_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (\boldsymbol{n} - 2)!} -$$

$$\sum \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{n}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge l_i \leq D + s - \boldsymbol{n} \wedge$$

$$\ldots < j \ldots_k - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$D > \boldsymbol{n} < n$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + \ldots)}^{(\ )}
$$

$$
\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}}^{(j_i + j_{sa} - s)} \sum_{(j^{sa} = j_{sa} + \ldots)}^{l_{ik} + \ldots - k - s + 1} \sum_{j_i = \ldots}^{\ldots}
$$

$$
\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \ldots)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \ldots + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \ldots}
$$

$$
\sum_{(n_{ik} + \ldots j^{sa} - \Bbbk_2)}^{} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{\ldots j_i - \Bbbk_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - \ldots)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \ldots_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(\ldots_a - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$\sum_{k=1}^{_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(l_{ik}+j_{sa}-k-j_{sa}^{ik}+1)} \sum_{(j^{sa}=j_{sa}+1)}^{l_i-k+1} \sum_{j_i=l_{ik}+j_{sa}^{ik}-k-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2-\ -j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{\ }\ )}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{\ j^{sa}\ \ j_i-\Bbbk_3}$$

$$\frac{(\ -n_{is}\ 1)!}{(j_s\ \ \ )!\cdot(n_i\ \ \ _s+1)!}\cdot$$

$$\frac{(\ -n_{ik}\ \ -1)!}{(\ _k-j_s-1)!\ \ _s+j_s\ _{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}\ n_{sa}-1)!}{(j^{sa}\ \ -1)!\ n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\ \ -1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _il}^{\ } \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\ } \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{}{(n_s+j_i-\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(l_i+s-l_{sa}-s)!}{(l_i-l_{sa}-j_i-l_{sa})!\cdot(j_i-s)!} \cdot$$

$$\frac{(D-l_i)!}{(D-i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{{}_i l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=s+1}^{l_{ik}+j_{sa}^{ik}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=\ _il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}} \sum_{sa=j_s} \sum_{j_i=s}$$

$$\sum_{\ k\ (n_{ik}} \sum^{(\ )}_{j_{ik}-\mathbb{k}_1+1)}$$

$$\sum_{n_{sa}=n_{ik}} \sum_{n_{sa}+j^{sa}-j_i-\mathbb{k}_3)}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i - n - \mathbb{k}_2 \ \mathbb{k}_3)! \cdot (\ + 2 \cdot j_s \ j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$D \ge n < n \wedge l_i \le \ + s - n \wedge$

$1 \ j_s \le j_{ik} \ ^{ik} + 1 \ + j_{ik}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} \ j_{sa} - j_{sa}^{ik} \le j \ \le j_i + j_s \ \wedge j^{sa} + s - j_{sa} \le j_i \le n \wedge$

$l_{ik} - j_{sa} \ 1 = l_s \wedge l_{sa} \ j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D \ge n < n \ \ = \mathbb{k} \ \wedge$

$j_s \ j_{sa} \ 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$s: \{j_{sa}^s, \cdots, \ j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \cdots, \mathbb{k}_3, j_{sa}^i\} \wedge$

$s \ge 0 \wedge s = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$_{fz}S_{j_s,\ j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{\ _il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(j_i+j_{sa}-s)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i-1)}{(j_s-2)!\,(n_i-n_{is}+1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1)!}{(j_{ik}-j_s-1)!\,(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\,(n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\,(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!} \cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j_i=l_s+s-k+1}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(j_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_i - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa}) \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{\boldsymbol{l}_i - \ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \quad)} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} \quad -s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}}) \quad (j_i - s)!} \cdot$$

$$\frac{(\quad \boldsymbol{l_i})!}{(D + j \quad -\boldsymbol{n} - \boldsymbol{l_i}) \qquad j_i)!} -$$

$$\sum_{j_{ik} = j^{sa} + j \quad _{sa}}^{\quad} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\quad)} \sum_{j_i = s+1}^{l_s + s - k}$$

$$\sum_{= \boldsymbol{n} + \Bbbk}^{(n_i - \quad 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{\quad} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{\quad}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{\quad}$$

$$\frac{(n_i + \quad j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \quad _i \boldsymbol{l}}^{\quad} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1)}^{n}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\;-j_i-\Bbbk_3)}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \; - 2\cdot j_s\;\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_s - j_{ik} - j_i - \; j_{sa}^{s}\right)!} \cdot$$

$$\frac{\cdots - \boldsymbol{l}_i)!}{\cdots - \boldsymbol{n} - \;)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s\;} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + \; - j_{sa} \leq j_i \leq \;\wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik} - j_{sa} = \;\wedge \boldsymbol{l_i} + \; - s \; \;_{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j^{ik} = j_{sa} - 1 \wedge j_{s\;} < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, \Bbbk\; j_{sa}^{ik}, \Bbbk_2, \; \cdots, \Bbbk_3, j_{sa}^{i}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \;\wedge$

$\Bbbk_z: z \; 3 \wedge \Bbbk = \Bbbk_1 + \;_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!}$$

$$\frac{(n_s - 1)!}{(\dots + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\,)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\,)} \sum_{j_i=s}^{\boldsymbol{l}_i-\,_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdots} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}}) \cdots (j_i - s)!} \cdots$$

$$\frac{(\cdots \boldsymbol{l_i})!}{(D + j \cdots \boldsymbol{n} - \boldsymbol{l_i}) \cdots j_i)!} -$$

$$\sum \sum_{\cdots (j \cdots - j_{sa}^{ik} + 1)}^{1 \qquad (\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j \cdots} \sum_{(j^{sa} = j_{sa} + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{\cdots - k + 1)}$$

$$\sum_{\cdots = \boldsymbol{n} + \Bbbk \ (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{(n_i - \cdots 1)} \sum$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{(\ )}$$

$$\frac{(n_i + \cdots j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \ _i \boldsymbol{l}} \sum_{(j_s = 1)}^{(\ )}$$

$\quad\quad D > \boldsymbol{n} < n$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\;)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1\ldots)}^{(\;)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\ldots-j_i-\Bbbk_3)}^{(\;)}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \ldots 2\cdot j_s\ldots\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + \ldots - j_{ik} - j_i \ldots j_{sa}^s\right)!} \cdot$$

$$\frac{\ldots - \boldsymbol{l_i})!}{\ldots - \boldsymbol{n} - \ldots)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s\ldots} j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + \ldots - j_{sa} \leq j_i \leq \ldots \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik}\ldots j_{sa} = \ldots \wedge \boldsymbol{l_i} + \ldots - s \ldots_{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j^{ik} = j_{sa} - 1 \wedge j_{s\ldots} < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \{j_{sa}^s\ldots, \Bbbk\ldots j_{sa}^{ik}, \Bbbk_2, \ldots \ldots, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \ldots \wedge$

$\Bbbk_z: z \ldots 3 \wedge \Bbbk = \Bbbk_1 + \ldots_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{\left(\boldsymbol{l_{ik}}+j_{sa}^{ik}-k-s+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\mathbb{k}_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{\boldsymbol{l}_i - \ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}_2+\mathbb{k}_3-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\mathbb{k}_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\mathbb{k}_3)}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} -)} \cdot$$

$$\frac{(l_i + j_{sa} - l_s - s)!}{(l_i + j_{sa} - j_i - l_{sa}) \cdot (j_i - s)!} \cdot$$

$$\frac{(\quad l_i)!}{(D + j \quad - \boldsymbol{n} - l_i) \quad j_i)!} -$$

$$\sum \quad \sum_{(j^{ik}_{sa} + 1)}$$

$$\sum_{j^{sa} + j^{ik}_{sa} - j_{sa}} \sum_{a = j_{sa} + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{(l_{ik} + j_{s} \quad k - s + 1)}$$

$$\sum_{= \boldsymbol{n} + \Bbbk \, (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{(n_i - \quad 1)}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\;)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \quad j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j^s_{sa})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - 2 \cdot j^s_{sa})!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \quad i l} \sum_{(j_s = 1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1\cdots)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\cdots-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \cdots 2\cdot j_s \cdots\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_s \cdots - j_{ik} - j_i \cdots j_{sa}^{s}\right)!} \cdot$$

$$\frac{\cdots - \boldsymbol{l_i})!}{\cdots - \boldsymbol{n} \cdots)! \cdot (\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s\cdots} j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} \cdots - j_{sa} \leq j_i \leq \cdots \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik} \cdots j_{sa} = \cdots \wedge \boldsymbol{l_i} + \cdots - s \cdots sa \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j^{ik} = j_{sa} - 1 \wedge j_{s\cdots} < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \left\{j_{sa}^{s} \cdots, \Bbbk \cdots j_{sa}^{ik}, \Bbbk_2, \cdots, \Bbbk_3, j_{sa}^{i}\right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \cdots \wedge$

$\Bbbk_z : z \cdots 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k= \,_i l} \sum_{(j_s=1)}^{(\,)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\,)} \sum_{j_i=s}^{\boldsymbol{l}_i - \,_i l + 1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdots}$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}}) \cdots (j_i - s)!} \cdots$$

$$\frac{(\cdots \boldsymbol{l_i})!}{(D + j \cdots \boldsymbol{n} - \boldsymbol{l_i}) \cdots j_i)!} -$$

$$\sum \sum_{(\cdots j_{sa}^{ik}+1)}^{1 \quad (\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_s}^{(\cdots j_{sa}-k)} \sum_{(j^{sa}=j_{sa}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{(n_i - \cdots 1)} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + \cdots j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \boldsymbol{i}l}^{(\ )} \sum_{(j_s=1)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1\ldots)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\ldots-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \ldots 2\cdot j_s \ldots\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_\ldots - j_{ik} - j_i \ldots j_{sa}^s\right)!} \cdot$$

$$\frac{\ldots - \boldsymbol{l_i})!}{(\ldots - \boldsymbol{n} - \ldots)! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s\ldots} j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + \ldots - j_{sa} \leq j_i \leq \ldots \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{i\ldots} \ldots j_{sa} = \ldots \wedge \boldsymbol{l_i} + \ldots - s \geq \ldots_{sa} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j^{ik} = j_{sa} - 1 \wedge j_{s\ldots} < j_{sa}^{ik} - 1 \ldots$$

$$\boldsymbol{s} \colon \left\{ j_{sa}^{s} \ldots, \Bbbk \ldots j_{sa}^{ik}, \Bbbk_2, \ldots \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \ldots \wedge$$

$$\Bbbk_z \colon z \ldots 3 \wedge \Bbbk = \Bbbk_1 + \ldots_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{ik}}^{(\ )}\sum_{(j^{sa}=j_{sa})}^{(\ )}\sum_{j_i=s}^{\boldsymbol{l_i}-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} -)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(- j_{sa}\right)!} \cdot$$

$$\frac{()!}{(D + j_{} - \boldsymbol{n} - l_i)! \cdot ()!} -$$

$$\sum \sum_{(j_{sa}^{ik}+1)}$$

$$\sum_{-j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}} \sum_{(j^{sa}+j_{sa}-j_{sa}^{ik})} \sum_{j_i = j^{sa}+s-j_{sa}}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{(n_i-1)} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{()} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k={}_i l} \sum_{(j_s=1)}^{()}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ \ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1, \ )}^{(\ \ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\ -j_i-\Bbbk_3)}^{(\ \ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \ \ 2\cdot j_s \ \right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j \ - j_{ik} - j_i \ \ j_{sa}^{s}\right)!} \cdot$$

$$\frac{\ -\boldsymbol{l_i})!}{(\ \ -\boldsymbol{n} - \ )! \cdot (\boldsymbol{n} - s)!}$$

$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_i} \le D + s - \boldsymbol{n} \wedge$

$1 \le j_s \le j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_s \ \ j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + \ - j_{sa} \le j_i \le \ \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik} \ \ j_{sa} = \ \wedge \boldsymbol{l_i} + \ - s \ \ sa \wedge$

$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j^{ik} = j_{sa} - 1 \wedge j_{s} \ < j_{sa}^{ik} - 1 \ $

$\boldsymbol{s}: \{j_{sa}^{s} \ \cdot, \ \ j_{sa}^{ik}, \Bbbk_2, \ \cdots, \Bbbk_3, j_{sa}^{i}\} \wedge$

$s \ge 6 \wedge \boldsymbol{s} = s + \ \wedge$

$\Bbbk_z: z \ \ 3 \wedge \Bbbk = \Bbbk_1 + \ \ _2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s\ ,j_{ik},j^{sa},j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ \ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ \ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(j_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{\boldsymbol{l}_i - \ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n}}$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}}) \cdot (j_i - s)!}$$

$$\frac{(\quad \boldsymbol{l_i})!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} -$$

$$\sum^{1} \sum^{(\ )}_{(\quad j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}-}} \sum_{(j^{s} \quad _{k}+j_{sa}-j_{sa}^{ik})} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{(n_i- \quad 1)} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + \quad j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k= \quad \boldsymbol{il}}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1,\ )}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+\ -j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \ \ 2\cdot j_s\ \right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_s - j_{ik} - j_i - \ j_{sa}^s\right)!} \cdot$$

$$\frac{\ \ -\ \boldsymbol{l_i})!}{(\ -\boldsymbol{n}-\ )!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s} \ j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + \ - j_{sa} \leq j_i \leq \ \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik} \ j_{sa} = \ \wedge \boldsymbol{l_i} + \ - s \ \ _{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j^{ik} = j_{sa} - 1 \wedge j_{s}\ < j_{sa}^{ik} - 1 \ $

$\boldsymbol{s} : \left\{ j_{sa}^{s}\ \cdot, \ \ j_{sa}^{ik}, \Bbbk_2, \ \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \ \wedge$

$\Bbbk_z : z\ \ 3 \wedge \Bbbk = \Bbbk_1 + \ _2 + \Bbbk_3 \ \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n-j^{sa})!}$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(j_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l}_i+j_i-\boldsymbol{l}_{sa}-s)!}{(j^{sa}+\boldsymbol{l}_i-j_i-\boldsymbol{l}_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _i\boldsymbol{l}}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}^{(\ )}\sum_{j_i=s}^{\boldsymbol{l}_i-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \quad)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}}) \quad (j_i - s)!} \cdot$$

$$\frac{(\quad \boldsymbol{l_i})!}{(D + j_i \quad \boldsymbol{n} - \boldsymbol{l_i})! \quad j_i)!} -$$

$$\sum^{1} \sum^{(\quad)}_{\quad {}^{ik}_{sa} + 1)}$$

$$\sum^{\boldsymbol{l_s} + j_{sa}}_{j_{ik} = j^{ik}_{sa} + 1} \sum^{(\quad)}_{(j^{sa} \quad k + j_{sa} - j^{ik}_{sa})} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum^{(n_i - 1)}_{= \boldsymbol{n} + \Bbbk \, (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum^{(\quad)}_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \quad j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j^s_{sa})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - 2 \cdot j^s_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = {}_i \boldsymbol{l}} \sum^{(\quad)}_{(j_s = 1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1\ldots)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\ldots-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\ldots 2\cdot j_s\ldots\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!\cdot\left(\boldsymbol{n}+2\cdot j_s+\ldots-j_{ik}-j_i-\ldots j_{sa}^s\right)!}\cdot$$

$$\frac{\ldots-\boldsymbol{l_i})!}{\ldots-\boldsymbol{n}\ldots)!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_i}\leq D+s-\boldsymbol{n}\wedge$

$1\leq j_s\leq j_{ik}-j_{sa}^{ik}+1\wedge j_s+j_{sa}^{ik}-1\leq j_{ik}\leq j^{sa}+j_{s\ldots}j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq j_i+j_{sa}-s\wedge j^{sa}+\ldots-j_{sa}\leq j_i\leq\ldots\wedge$

$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1=\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j^{ik}\ldots j_{sa}=\ldots\wedge\boldsymbol{l_i}+\ldots-s\ldots_{sa}\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa}<j_{sa}^i-1\wedge j^{ik}=j_{sa}-1\wedge j_{s\ldots}<j_{sa}^{ik}-1\ldots$

$\boldsymbol{s}:\{j_{sa}^s,\ldots,\Bbbk\ldots j_{sa}^{ik},\Bbbk_2,\ldots,\Bbbk_3,j_{sa}^i\}\wedge$

$s\geq 6\wedge\boldsymbol{s}=s+\ldots\wedge$

$\Bbbk_z:z\ldots 3\wedge\Bbbk=\Bbbk_1+\Bbbk_2+\Bbbk_3\Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i}=\sum_{k=1}^{il-1}\sum_{(j_s=2)}^{(l_{sa}-k-j_{sa}+2)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)}\sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{(\ )} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{\boldsymbol{l}_i-\,_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdots} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} \cdots s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}}) \cdots (j_i - s)!}$$

$$\frac{(\cdots \boldsymbol{l_i})!}{(D + j \cdots \boldsymbol{n} - \boldsymbol{l_i})! \cdots j_i)!} -$$

$$\sum \sum_{=2)}^{\cdots 1 \, (\boldsymbol{l_{sa}} - k - j_{sa} +}$$

$$\sum_{\cdots = j_s + j_{sa}^{ik} - 1} \sum_{(j \cdots _{ik} + j_{sa} - j_{sa}^s)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{\cdots = \boldsymbol{n} + \Bbbk \, (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - \cdots 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\ \ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \cdots j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \ _i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\ \ )}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1 \ldots)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\ldots-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \ldots 2 \cdot j_s \ldots\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + \ldots - j_{ik} - j_i \ldots j_{sa}^s\right)!} \cdot$$

$$\frac{\ldots - \boldsymbol{l}_i)!}{\ldots - \boldsymbol{n} - \ldots)! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_i \leq D + s - \boldsymbol{n} \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s\ldots} j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + \ldots - j_{sa} \leq j_i \leq \ldots \wedge$$

$$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j^{ik} \ldots j_{sa} = \ldots \wedge \boldsymbol{l}_i + \ldots - s \ldots \boldsymbol{l}_{sa} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j^{ik} = j_{sa} - 1 \wedge j_{s\ldots} < j_{sa}^{ik} - 1 \ldots$$

$$\boldsymbol{s}: \{j_{sa}^s, \ldots, \Bbbk \ldots j_{sa}^{ik}, \Bbbk_2, \ldots, \ldots, \Bbbk_3, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \ldots \wedge$$

$$\Bbbk_z: z \ldots 3 \wedge \Bbbk = \Bbbk_1 + \ldots_2 + \Bbbk_3 \Rightarrow$$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{\left(\boldsymbol{l}_{ik}-k-j_{sa}^{ik}+2\right)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk\,)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n\quad-j^{sa})!}$$

$$\frac{(n_{sa}-n\quad-\Bbbk_3-1\,)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+\!\!\quad^{a}-n_s-j_i\quad)!}\cdot$$

$$\frac{(n_s\quad1)!}{\quad+j\quad-1)\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s\quad k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l}_i+\quad-\boldsymbol{l}_{sa}-s)!}{(j^{sa}\quad\boldsymbol{l}_i-j_i-\boldsymbol{l}_s\quad)\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _i\boldsymbol{l}}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}^{(\ )}\sum_{j_i=s}^{\boldsymbol{l}_i-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - \cdots)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}}) \cdots (j_i - s)!} \cdot$$

$$\frac{(\cdots \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdots j_i)!} -$$

$$\sum \sum_{\cdots = 2)}^{\cdots 1 \, (l_{ik} - k - j_{sa}^{ik} +}$$

$$\sum_{\cdots_{ik} = j_s + j_{sa}^{ik} - 1} \sum_{(j^{\cdots}_{ik} + j_{sa} - j_{sa}^{\cdots})} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{\cdots = \boldsymbol{n} + \Bbbk}^{(n_i - \cdots 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\;)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \cdots j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \, _i \boldsymbol{l}} \sum_{(j_s = 1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\quad-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \quad 2\cdot j\quad\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!\cdot\left(\boldsymbol{n}+2\cdot j_s + j\quad - j_{ik}-j_i \quad j_{sa}^s\right)!}\cdot$$

$$\frac{\quad - \boldsymbol{l_i})!}{\quad - \boldsymbol{n} \quad)!\cdot(\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_s \quad j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} \quad - j_{sa} \leq j_i \leq \quad \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik} \quad j_{sa} \quad \wedge \boldsymbol{l_i} + \quad - s \quad {}_{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j^{ik} = j_{sa} - 1 \wedge j_{s} \quad j_{sa}^{ik} - 1$

$\boldsymbol{s}:\left\{j_{sa}^s \quad \cdot, \Bbbk \quad j_{sa}^{ik}, \Bbbk_2, \quad \cdots, \Bbbk_3, j_{sa}^i\right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \quad \wedge$

$\Bbbk_z: z \quad 3 \wedge \Bbbk = \Bbbk_1 + \quad {}_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_il-1\,(\boldsymbol{l_s}-k+1)} \sum_{(j_s=2)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!}$$

$$\frac{(n_s - 1)!}{(j_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_i - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{\boldsymbol{l}_i - \ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - \quad)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{s}} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}}) \quad (j_i - s)!} \cdot$$

$$\frac{(\quad \boldsymbol{l_i})!}{(D + j \quad - \boldsymbol{n} - \boldsymbol{l_i}) \quad \quad j_i)!} -$$

$$\sum \sum_{k= \quad (j_s=2)}^{_il - 1 \, (l_s - k + \quad)}$$

$$\sum_{_{ik} = j_s + j_{sa}^{ik} - 1} \sum_{(j \quad _{ik} + j_{sa} - j_{sa}^{\quad})} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{= \boldsymbol{n} + \Bbbk}^{(n_i - \quad 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \quad j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k= \, _il}^{(\quad)} \sum_{(j_s=1)}$$

$D > \boldsymbol{n} < n$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1 \cdots)}^{n \ (\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2 \ (n_s=n_{sa}+\cdots -j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \cdots 2\cdot j_s \cdots\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_s \cdots - j_{ik} - j_i \cdots j_{sa}^s\right)!} \cdot$$

$$\frac{\cdots - \boldsymbol{l_i})!}{\cdots - \boldsymbol{n} - \cdots)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s\cdots} j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + \cdots - j_{sa} \leq j_i \leq \cdots \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik} \cdots j_{sa} = \cdots \wedge \boldsymbol{l_i} + \cdots - s \cdots_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + \cdots - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa} - \cdots \wedge j_{sa}^{ik} = \cdots - 1 \wedge j_{sa}^s < j_s \cdots 1 \wedge$

$\boldsymbol{s}: (j_{sa}^s, \cdots, \Bbbk_1, j_{sa} \cdots_2, j_{sa}, \cdots \Bbbk_3, j_s^i) \cdots$

$s \geq 0 \cdots \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(j_i+j_{sa}-s)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l}_i+j_s-\boldsymbol{l}_{sa}-s)!}{(j^{sa}+\boldsymbol{l}_i-j_i-\boldsymbol{l}_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{\boldsymbol{l}_i-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l}_{sa}-k+1)}\sum_{j_i=\boldsymbol{l}_{sa}+s-k-j_{sa}+2}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \,)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\;\; k - 1\;)}{(\boldsymbol{l_s} - \;- k + \;)\;(\;- 2)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} - s)!}{(j^{sa} + \boldsymbol{l_i} - \;)! \cdot (j_i + \; - j^{sa} - s)!} \cdot$$

$$\frac{(D \;\;)}{(D + j_i\; - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_i l} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\;)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-\,_i l+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(l_i + j_{sa} - j_i - l_{sa})! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + \cdots)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}}^{} \sum_{(j^{sa} = j_i + j_{sa} - \cdots)}^{(\ )} \sum^{l_{sa} + \cdots k - j_{sa} + 1}_{\cdots = l_i + \cdots - D}$$

$$\sum_{n_i = n + \Bbbk \, (\cdots)}^{n} \sum_{}^{(n_i - j_s + 1)} \sum_{n_{ik} = \cdots + j_s - j_{ik} - \Bbbk_1}^{}$$

$$\sum_{(n_{sa} = n_{ik} + \cdots - j^{sa} - \Bbbk_2}^{(\ )} \sum_{\cdots = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{}$$

$$\frac{(n_i + 2 \cdot j_s + \cdots - j_{ik} - j_i - \cdots - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \cdots - \Bbbk_1 - \cdots_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n \cdots \wedge l_s \leq D - \cdots + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - \cdots^{ik} + \cdots j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - \cdots^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + \cdots = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s : \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$$

$\qquad D > \boldsymbol{n} < n$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}
$$

$$
\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_{sa} + 1)}^{(j_i + j_{sa} - s)} \sum_{j_i = \ + \boldsymbol{n} - D}^{\boldsymbol{l}_{ik} + s - k - j_{sa}^{ik} + }
$$

$$
\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{= \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik}}^{+ j_s - j \quad \Bbbk_1}
$$

$$
\sum_{(n_{sa} = \boldsymbol{n} + \ - j^{sa} + 1)}^{j^{sa} - \Bbbk_2)} \sum_{n_s = \ - j_i + 1}^{+ j^{sa} - j_i - \Bbbk_3}
$$

$$
\frac{(n_i \ - n_{is} - 1)!}{(j_s \ )! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - \ - \Bbbk_1 - 1)!}{(\ - j_s \ )! \cdot (\ _s + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{s} \ - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot
$$

$$
\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$
\sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}
$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \quad \sum_{(j^{sa}=j_{sa}+1)}^{(l_{ik}+j_{sa}-k-j_{sa}^{ik}+1)} \quad \sum_{j_i=l_{ik}+s-k-j_{sa}^{ik}+2}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \quad \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \quad \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_i}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \quad \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-\cdots}$$

$$\frac{(n_i - \cdots - 1)}{(j_s - 2) \cdots (n_i - n_{is} - \cdots - 1)!} \cdot$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdots (n_i - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{\cdots} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - n_{sa} - 1)! \cdot (n_s + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=_il}^{(\quad)} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!}$$

$$\frac{(n_s - \ )!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_i + j_{sa} - j_{sa} - s)!}{(l_i - j_{sa} - j_{sa})! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(\ + j_i - \ - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=\ +j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{n}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i} \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{\Bbbk_z} S_{j_s, j_{ik}, j^{sa}} = \sum_{k=1}^{i^{l}-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_{sa} + 1)}^{(j_i + j_{sa} - s)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_s} + s - k}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s \qquad)} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} \qquad j^{sa} - s)!} \cdot$$

$$\frac{(\qquad \boldsymbol{l_i})!}{(D + j \qquad \boldsymbol{n} - \boldsymbol{l_i}) \qquad j_i)!} +$$

$$\sum \sum_{(\qquad - j^{ik}_{sa} + 1)}$$

$$\sum_{j_{ik} = j^{sa} + j^{ik}_{sa} - } \sum_{(j^{sa} = j_{sa} + 1)} \sum_{j_i = \boldsymbol{l_s} + s - k + 1}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{\boldsymbol{n} + \Bbbk \, (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k= \, _i l} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}= \quad)}^{(\quad)} \sum_{j_i = \quad n-D}^{\quad - \, _i l + 1}$$

$$\sum_{j_i = n}^{n} \sum_{= n + \quad \Bbbk_3 - j_{ik}+1}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{ik} + j \quad sa - \Bbbk_2}^{} \sum_{(n_{sa} \quad j_i - \Bbbk_3)}^{}$$

$$\sum_{n_{sa} \quad + \Bbbk_3 - j^{sa}}^{} \sum_{(n_s = n - j_i + 1)}^{}$$

$$\frac{(n_i \quad n_{ik} - \Bbbk_1 - 1)!}{(\quad - 2)! \cdot (\quad - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(\quad - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(l_i + j_{sa} - j_i - l_{sa})! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D + l_s + s - n - l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s \right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_i - \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{- k - 1)!}{(\boldsymbol{l}_s - j_s - 1)! \cdot (j_s - \ )} \cdot$$

$$\frac{(D - \ )!}{(D - j_i - \boldsymbol{n} - \boldsymbol{l}_{ik} - \boldsymbol{n} - j_i)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \quad j^{sa} + j_{sa}^{ik} - j \quad \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \quad - s \wedge j \quad + s - j \quad \leq j_i \leq \quad \wedge$$

$$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s \quad - j_{sa} = \boldsymbol{l}_{ik} \wedge \quad + j_{sa} - s > \boldsymbol{l}_{sa} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l}_i \leq D + \boldsymbol{l}_s + s - \quad 1 \wedge$$

$$D \geq \quad < n \quad I = \Bbbk \quad 0 \wedge$$

$$j_{sa} \quad < j_{sa}^{i} - 1 \wedge \quad {}^{ik} = j_{sa} \quad \wedge j_{sa}^{s} \quad {}_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \{j_{s} \quad \ldots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, \quad \ldots, \Bbbk_3, j_{sa}\} \wedge$$

$$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} \quad s + \Bbbk \wedge$$

$$\Bbbk_z: \quad 3 \wedge \Bbbk = \quad + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_{sa} + 1)}^{(\boldsymbol{l}_i + \boldsymbol{n} + j_{sa} - D - s - 1)} \sum_{j_i = \boldsymbol{l}_i + \boldsymbol{n} - D}^{\boldsymbol{l}_i - k + 1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{\boldsymbol{l}-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_{sa}}-k+1)}\sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j)!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(\quad - 1)!}{(n_s + \quad - \boldsymbol{n} - 1 \quad - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{j_s - k \quad)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + \quad - \boldsymbol{l_{sa}}}{(j^{sa} + \boldsymbol{l_i} \quad_i - \boldsymbol{l_{sa}}) \quad (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D \quad \boldsymbol{l_i})!}{(D + \quad - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = _i\boldsymbol{l}}^{()} \sum_{(j_s = 1)}^{()}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}^{()} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - _i\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - }$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = j \quad j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} -)}^{(\boldsymbol{l_{sa}} \quad k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{=\boldsymbol{n} + \Bbbk - j_s)}^{\quad j_s + 1} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{n}$$

$$\sum_{=n_{ik} + j_{ik} - \Bbbk_2}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + \quad ^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(\quad - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$D \quad \boldsymbol{n} \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j \quad j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j \quad j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \cdots, \mathbb{k}_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = -j_{sa}^{ik}+1)}^{(\ )}
$$

$$
\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}}^{} \sum_{(j^{sa}+1)}^{(l_i + n + j_s \cdots s - 1)} \sum_{j_i = l_i + }^{k+1}
$$

$$
\sum_{n_i = \boldsymbol{n}}^{n} \sum_{(n_{is} = \boldsymbol{n} + \mathbb{k} \cdots +1)}^{} \sum_{n_{ik} = \boldsymbol{n} + \cdots}^{j_s - j_{ik} - \mathbb{k}_1} {}_{-j_{ik}+1}
$$

$$
\sum_{(n_{sa} = \boldsymbol{n} \cdots _3 - j^{sa}+1)}^{k + j_{ik} - j \cdots \mathbb{k}_2} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \mathbb{k}_3}
$$

$$\frac{(n_i - n_{is} - 1)!}{(\ _s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} \cdots _s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1)} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{} \sum_{j_i=j^{sa}+s-}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2-\ldots-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j\ldots\ldots)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{j^{s}\ldots j_i-\Bbbk_3}$$

$$\frac{(\ldots-n_{is}\ldots 1)!}{(j_s\ldots\ldots)!\cdot(n_i\ldots\ldots+1)!}\cdot$$

$$\frac{(\ldots-n_{ik}\ldots-1)!}{(\ldots-j_s-1)!\cdot(\ldots_{s}+j_s\ldots_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}\ldots n_{sa}-1)!}{(j^{sa}\ldots-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\ldots-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k={}_i\boldsymbol{l}}^{(\quad)} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{(\quad)} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s-j_i-\boldsymbol{n}-\Bbbk-j_i)!} \cdot$$

$$\frac{(l_i+s-l_{sa}-s)!}{(l_i-l_{sa}-j_i+l_{sa})!\cdot(j_i-s)!} \cdot$$

$$\frac{(D-l_i)!}{(D-l_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=l_i+\boldsymbol{n}+j_{sa}-D-s)}^{(l_{ik}+j_{sa}-k-j_{sa}^{ik}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^{s})!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$

$D \geq n < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} \; 1 \wedge$

$s: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\},$

$s \geq 6 \wedge s = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\;\;)}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_{sa} + 1)}^{(l_i + n + j_{sa} - D - s - 1)} \sum_{j_i = l_i + n - D}^{l_i - k + 1}$$

$$\sum_{n_i = n + \Bbbk} \sum_{(n_{is} = n + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - \,)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - \,)!}{(\boldsymbol{l_s} - j_s - k + 1)\,(j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \,\, s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}\,)\,(j_i + j_{sa} - \,\, s)!} \cdot$$

$$\frac{(\,\, \boldsymbol{l_i})!}{(\,\,_i - \boldsymbol{n} - \,) \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{i} \quad \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik} - \,\, + j_{sa}^{ik} - \,\,}^{(\boldsymbol{l_s}\,_{sa} - k)} \sum_{(\,\,\boldsymbol{n} + j_{sa} - D - s)}^{\,} \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{\boldsymbol{n} + \Bbbk \ (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - \quad} +$$

$$\sum_{k=}^{()}\sum_{(j_s=1)}$$

$$\sum_{i_k=j_{sa}^{ik}}^{()}\sum_{(j^{\quad}\quad_{sa})}\sum_{j_i=l_i+n-D}^{+1}$$

$$\sum_{n_i=n+\Bbbk}^{()}\sum_{=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{(j_{ik}\quad+1)}$$

$$\sum_{n_{sa}=n\quad_3-j^{sa}+1}^{n_{ik}+\quad-j^{sa}-\Bbbk_2}\sum_{(n_s=n-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(\quad_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(\quad^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(l_i + j_{sa} - j_i - l_{sa})! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{()}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{n} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}^{(n_i-j_s+1)}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}\ \ a-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \quad \Bbbk_2 - \quad \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \quad - \Bbbk_3)!} \cdot$$

$$\frac{}{(\boldsymbol{n} + \quad {}^{ik} - j_{ik} \quad i - 2 \cdot j_{sa}^s)!}$$

$$\frac{(\boldsymbol{l_s} - k}{(\boldsymbol{l_s} - j_s \quad k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\quad - \boldsymbol{l_i})!}{(D \quad j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + \quad \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s \quad {}^{ik} - 1 \leq j_{ik} \quad {}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq \quad {}^{sa} \leq j_i + j_{sa} - \quad j^{sa} + s \quad j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + \quad = \boldsymbol{l_s} \wedge \boldsymbol{l_s} \quad + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_i} \quad \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \quad D + \boldsymbol{l_s} + \quad - \boldsymbol{n} \quad 1 \wedge$

$D \geq \boldsymbol{n} \quad < n \wedge I = \Bbbk > \quad \wedge$

$j_{sa} < j_{sa}^{i} \quad \wedge j_{sa}^{ik} = j \quad - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{ \quad \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i} \} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = \quad + \Bbbk \wedge$

$\quad \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s\ ,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_i+n+j_{sa}^{ik}-D-s-1} \; \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ \ )} \; \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\sum_{n_i=n+\Bbbk}^{n} \; \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \; \sum_{n_{ik}=n+\Bbbk_2+\Bbbk_3-j_{ik}}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \; \sum_{n_{s}\ldots -j_i+1}^{n_{sa}+j^{sa}-j_i-\ldots}$$

$$\frac{(n_i\ \ldots\ -1)}{(j_s-2)\ \ldots\ (n_i-n_{is}\ \ldots\ +1)!}\cdot$$

$$\frac{(n_i\ \ldots\ -n_{ik}-\Bbbk_1\ \ldots\ 1)!}{(j_{ik}-j_s-1)\ \ldots\ (n_i\ \ldots\ -n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}\ \ldots\ n_{sa}-1)\ \ldots}{(j^{sa}-j_{ik}\ \ldots\ 1)!\cdot(n\ \ldots\ +j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}\ \ldots\ n_s-\Bbbk_3\ \ldots\ 1)!}{(j_i\ \ldots\ j^{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}+$$

$$\sum_{k=1}^{i^{l-1}} \; \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ \ )}$$

$$\sum_{j_{ik}=l_i+n+j_{sa}^{ik}-D-s}^{l_{sa}+j_{sa}^{ik}-k-j_{sa}+1} \; \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ \ )} \; \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-k+1}$$

$$\sum_{n_i=n+\Bbbk}^{n} \; \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \; \sum_{n_{ik}=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + sa - n_s - j - s)!} \cdot$$

$$\frac{(n_s - 1)!}{(+ j - 1) \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_s) \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_i-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} + \ )!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_s} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}}) \cdot (j_i - s)!} \cdot$$

$$\frac{(\ \ \boldsymbol{l_i})!}{(D + j_{\ } - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\ \ j_i)!} -$$

$$\frac{(n_i + \ \ j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \le D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \ge 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}
$$

$$
\sum_{j_{ik}=j_{sa}^{ik}+1}^{+\boldsymbol{n}+j_{sa}^{ik}-D-s-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{\cdots-k+1} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{}
$$

$$
\sum_{n_i=\boldsymbol{n}+j_{is}-\cdots}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk_1+j_s+1)}^{(n_i-j_{sa})} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}
$$

$$
\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = l_i + n + j_{sa}^{ik} - D - s}^{l_{ik} - k + 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa})}^{(\ )} \sum^{-k+1}_{j^{sa} - j_{sa}}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is})}^{(n_i - j_s + 1)} \sum_{n = n + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk}$$

$$\sum_{(n_{s} + \Bbbk_3 - j^{sa})}^{(n_{ik} + j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - {}_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{{}^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=\ _i\boldsymbol{l}}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{\boldsymbol{l_i}-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{\ j^{sa}\ -\Bbbk_3}$$

$$\frac{(\ -\Bbbk_1\ \ +1)!}{(\ -2)!\cdot(\ \ -n_{ik}\ \ \ \ +1)!}\cdot$$

$$\frac{(n_{ik}-\ \ -1)!}{(j^{sa}-j_{ik}-\ )!\cdot(n_{ik}\ \ \ -n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\ \ -\Bbbk_3-1)!}{(\ _i-j^{s}\ \ 1)!\cdot(\ \ +j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(\boldsymbol{l_i}+j_{sa}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{s})}$$

$$\frac{(\boldsymbol{l_s} - k -)!}{(\boldsymbol{l_s} - j_s - k + 1)! \quad (_s - 2)!}$$

$$\frac{(D -)}{(D + j_{\quad}\boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n}\quad_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j \quad + j_{sa}^{ik} - \quad \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \quad \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \quad \boldsymbol{l}_i + j_{sa} - s > \quad_a \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_s < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \{j_{sa}^s \quad \cdot, \Bbbk \quad, j_{sa}^{ik}, \Bbbk_2 \quad_a, \cdots, \Bbbk_3, j_{sa}^i\}$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} = s \quad \Bbbk \wedge$

$\Bbbk_z: \quad = 3 \wedge \Bbbk = \Bbbk_1 \quad \Bbbk_2 + \Bbbk_3$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{\boldsymbol{l}-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l}_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \quad)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\quad k - 1\quad)}{(\boldsymbol{l_s} - \quad - k + 1 \quad - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l} \quad - s)!}{(j^{sa} + \boldsymbol{l_i} - \quad)! \cdot (j_i + \quad - j^{sa} - s)!} \cdot$$

$$\frac{(D \quad)}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_i \boldsymbol{l}} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-\,_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+}^{(\quad)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa})}^{(\quad)} \sum^{-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_i=)}^{(n_i-j_s+1)} \sum_{=j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa} - j_{ik} - j_i - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i + \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\cdots \geq \boldsymbol{n} < \cdots \wedge \boldsymbol{l_s} \leq D - \cdots + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - \cdots \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - \cdots \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_s} - j_{sa}^{ik} + \cdots = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{(l_i + n - D - s)}
$$

$$
\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ \ )} \sum_{-l_i+n-D}^{l_i-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum^{+j_s-j_{\ }+\Bbbk_1}_{=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j}
$$

$$
\sum_{(n_{sa}=\boldsymbol{n}\ \ -j^{sa}+1)} \sum^{{}\ \ j_i+1}_{\ \ }
$$

$$
\frac{(n_{\ }\ n_{is} - 1)!}{(j_s\ \ 2)! \cdot (n_{\ } - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{\ } - \Bbbk_1 - 1)!}{-j_s\ \ )! \cdot (_{\ } + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{s}\ \ - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$
\sum_{k=1}^{{}_i l - 1} \sum_{(j_s = \boldsymbol{l_i} + \boldsymbol{n} - D - s + 1)}^{(\boldsymbol{l_{sa}} - k - j_{sa} + 2)}
$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i\quad -1)}{(j_s-2)\ (n_i-n_{is}\quad+1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk\ 1)!}{(j_{ik}-j_s-1)\ \cdots\ j_s-n_{is}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}\quad n_{sa}-1)}{(j^{sa}-j_{ik}\ 1)!\cdot(\ +j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}\quad n_s-\Bbbk_3\ 1)!}{(j_i\quad sa-1)!\cdot(n_s+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - \Bbbk_3)!}$$

$$\frac{(n_s -)}{(n_s + j_i - n - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - l_{sa} - s)!}{(l_i + j_{sa} - l_{sa})! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(l_{sa} + j_i - D - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D-l_{sa}+s-\boldsymbol{n}-l_i} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(l_{sa}-k-j_{sa}+2)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{i\ldots}a, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_i}+\boldsymbol{n}-D-s)}$$

$$\sum_{{}_k=j_s+j_{sa}^{ik}-1}^{(\ )} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s \qquad)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} \qquad j^{sa} - s)!} \cdot$$

$$\frac{(\qquad \boldsymbol{l_i})!}{(D + j \qquad \boldsymbol{n} - \boldsymbol{l_i}) \qquad j_i)!} +$$

$$\sum \sum^{(\boldsymbol{l_{ik}} - k - j_{sa}^{ik} + 2)}$$

$$\sum \sum \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{\boldsymbol{n} + \Bbbk \; (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i l}^{(\ )} \sum_{(j_s=1}^{\ }$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{(\ )} \sum_{(j^{sa}=\ )}^{-\ _i l+1} \sum_{\ =\ -\boldsymbol{n}-D}^{\ }$$

$$\sum_{\ =\ }^{n} \sum_{=\boldsymbol{n}+\ \Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}\ +\Bbbk_3-j^{sa}\ }^{n_{ik}+j\ \ ^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}\ \ j_i-\Bbbk_3)}$$

$$\frac{(n_i\ \ _{ik} - \Bbbk_1 - 1)!}{(\ \ -2)! \cdot (\ \ - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{\ } - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(\ -j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}+2)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{(\ )} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{\ } \sum_{j_i=j^{sa}+s-j_{sa}}^{\ }$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - j_{sa}^{s}\right)!} \cdot$$

$$\frac{- k - 1)!}{(\boldsymbol{l}_s - j_s - 1)! \cdot (j_s - 2} \cdot$$

$$\frac{(D - 1)!}{(D - j_i - \boldsymbol{n} - l_i + \boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \cdots j^{sa} + j_{sa}^{ik} - j \cdots \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \cdots - s \wedge \cdots + s - \cdots \leq j_i \leq \cdots \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_s \cdots - j_{sa} = \boldsymbol{l_{ik}} \wedge \cdots + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \cdots 1 \wedge$

$D \geq \cdots < n \cdots I = \Bbbk \cdots 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge \cdots {}^{k} = j_{sa} \cdots \wedge j_{sa}^{s} \cdots j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa} \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, \cdots, \Bbbk_3, j_{sa}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \cdots s + \Bbbk \wedge$

$\Bbbk_z : \cdots 3 \wedge \Bbbk = \cdots + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_il-1} \sum_{(j_s=2)}^{(l_i+\boldsymbol{n}-D-s)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n \quad - j_s + 1)} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s \quad - j_i - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - \quad - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} \quad - n_{sa} - j \quad)!} \cdot$$

$$\frac{(n_{sa} \quad n_s - 1)}{(j_i - j^s \quad 1)! \cdot (n \quad + j^{sa} - n \quad - \Bbbk_3)!} \cdot$$

$$\frac{(\quad n_s - 1)!}{(\quad + j_i - n \quad 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l} \quad j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} \quad \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j)!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(- 1)!}{(n_s + - \boldsymbol{n} -) \cdot (- j_i)!} \cdot$$

$$\frac{(k - 1)!}{(j_s - k)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + - \boldsymbol{l_{sa}})}{(j^{sa} + \boldsymbol{l_i} - \boldsymbol{l_{sa}}) \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D \boldsymbol{l_i})!}{(D + - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = _i\boldsymbol{l}} \sum_{(j_s = 1)}^{()}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}^{()} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - _i\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(\boldsymbol{l_i} + j_{sa} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - }$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \quad \sum_{(j_s = \boldsymbol{l_i}+}^{(\boldsymbol{l}-k+1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa} = j_{ik}+j_{sa}} \sum_{j_i = j^{sa}+s-j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n}+}^{n} \sum_{=\boldsymbol{n}+\Bbbk-j} \sum_{n_{ik} = n_{is}+j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{=n_{ik}+j_{ik}}^{} \sum_{-\Bbbk_2) \; n_s = n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + ^{ik} - j_{ik} - _i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(- \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{} + j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{} j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{il-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + \;)}^{(\;\;)}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + j_{sa} - \;)}^{(\;\;)} \sum_{}^{l_{ik} + \;-k-s+1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \;+\Bbbk \;)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \;+\Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \;}$$

$$\sum_{(n_{\;} = \boldsymbol{n} + \Bbbk_3 - j^{\;})}^{(n_{ik} + \;j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{\;} + \;j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - \;)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \;_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(\;_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l}_{ik}-k+1} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l}_{ik}+j_{sa}^{ik}-k-}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2 \ -j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j\ \ )}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2\ +j^s\ \ j_i-\Bbbk_3} \sum_{n_s=\boldsymbol{n}-j_i+}^{}$$

$$\frac{(\ -n_{is}\ \ 1)!}{(j_s\ \ 2)!\cdot(n_i\ \ j_s+1)!}\cdot$$

$$\frac{(\ -n_{ik}\ \ \Bbbk_1-1)!}{(\ _{ik}-j_s-1)!\cdot(n_{is}+j_s\ \ _{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}\ \ n_{sa}-1)!}{(j^{sa}\ \ _{k}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\ ^a-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{\left(\boldsymbol{l}_{sa}+j_{sa}^{ik}-\boldsymbol{l}_{ik}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l}_{sa}-j^{sa}-\boldsymbol{l}_{ik})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=s}^{\boldsymbol{l}_i-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-\dots)!}{(n_s-j_i-\boldsymbol{n}-\dots-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{\dots}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{\dots}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D-\dots_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=s+1}^{\boldsymbol{l_{ik}}+j_{sa}^{ik}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^{s})!}\cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\,_il}^{(\,)} \sum_{(j_s=1}^{}$$

$$\sum_{j_{ik}=j_{sa}}^{} \sum_{sa=j_s}^{} \sum_{j_i=s}^{}$$

$$\sum_{ik\,(n_{ik}}^{} \sum_{j_{ik}-\mathbb{k}_1+1)}^{(\,)}$$

$$\sum_{n_{sa}=n_{ik}}^{j^{sa}-\mathbb{k}_2} \sum_{n_{sa}+j^{sa}-j_i-\mathbb{k}_3)}^{}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \mathbb{k}_2 - \mathbb{k}_3)! \cdot (n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq \ldots + s - \boldsymbol{n} \wedge$

$1 \ldots j_s \leq j_{ik} \ldots^{ik} + 1 \ldots + j_s^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} \ldots j_{sa} - j_{sa}^{ik} \leq j \ldots \leq j_i + j_s \ldots \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa} \ldots 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} \ldots j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge \ldots \mathbb{k} > \ldots \wedge$

$j_s \ldots j_{sa} \ldots 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s} \colon \{j_{sa}^s, \cdots, \ldots j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \cdots, \mathbb{k}_3, j_{sa}^i\} \wedge$

$s \geq 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z \colon z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\,)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_{s} -j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i \quad -1)}{(j_s-2) \ (n_i-n_{is} \quad +1)!}\cdot$$

$$\frac{(n_{i} -n_{ik}-\Bbbk \quad 1)!}{(j_{ik}-j_s-1) \quad -n_{is}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik} \quad n_{sa}-1) \quad }{(j^{sa}-j_{ik} \quad 1)!\cdot(\quad +j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa} \quad n_s-\Bbbk_3 \quad 1)!}{(j_i \quad ^{sa}-1)!\cdot(n \quad +j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

474    $D > \boldsymbol{n} < n$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l}_{sa}+j_{sa}^{ik}-\boldsymbol{l}_{ik}-j_{sa})!}{(k+\boldsymbol{l}_{sa}+j^{sa}-\boldsymbol{l}_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\sum_{j_i=s}^{l_i-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} -)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - a\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (a - j_{sa})!}$$

$$\frac{()!}{(D + j_i \boldsymbol{n} - \boldsymbol{l_i})! \cdot (j_i)!} -$$

$$\sum \sum_{(j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{l}a} \sum_{(j^{sa}=j_i+j_{sa}-s)} \sum_{j_i=s+1}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{(n_i-1)}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=_i\boldsymbol{l}} \sum_{(j_s=1)}^{()}$$

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$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\ -j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 -\ -2\cdot j_{s}\ \right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j\ - j_{ik} - j_i\ j_{sa}^{s}\right)!} \cdot$$

$$\frac{(\ -\boldsymbol{l}_i)!}{(\ -\boldsymbol{n}-\ )! \cdot (\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_i \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{s\ }\ j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} +\ - j_{sa} \leq j_i \leq\ \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j^{ik}\ j_{sa} > \ \wedge \boldsymbol{l}_i + \ - s = \ _{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j^{ik} = j_{sa} - 1 \wedge j_{s\ } < j_{sa}^{ik} - 1$

$\boldsymbol{s} : \left\{ j_{sa}^{s}\ ,\cdot,\ \ j_{sa}^{ik}, \Bbbk_2, \ \cdots, \Bbbk_3, j_{sa}^{i} \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \ \wedge$

$\Bbbk_z : z\ \ 3 \wedge \Bbbk = \Bbbk_1 + \ _2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\ j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_{ik}+j_{sa}^{ik}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(+j-1)\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1}\sum_{(j^{sa}=\boldsymbol{l_{ik}}+j_{sa}^{ik}-k-s+2)}^{(\boldsymbol{l_{sa}}-k+1)}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i -)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(k - 1)}{(\boldsymbol{l_s} - k +) - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} -)!\right.}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} \quad (j^{sa} + j_s - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - l_{ik})}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \,_i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\;)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}^{\left(\boldsymbol{l_{sa}} - \,_i\boldsymbol{l} + 1\right)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_{sa} + 1)}^{(l_{ik} + j_{sa}^{ik} - k - s + 1)} \sum_{j_i = s}^{j_{sa}}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = n_i + \Bbbk - j_s)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik}^{sa} - \Bbbk_2)}^{(\ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k = {}_i l}^{} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}^{(\ )} \sum_{j_i = s}^{}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{}\sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s\right)!}{\left(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3\right)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{sa}^s\right)!}\;\cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - \quad)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n}\,$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge l_i + j_{sa} \qquad \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}\colon \left\{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z\colon z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \quad \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!}\;\cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}\;\cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - \quad)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \quad)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \quad _{sa} + j_{sa}^{ik} - \quad j_{sa})!} \cdot$$

$$\frac{(\quad \boldsymbol{l_i})!}{\quad - \boldsymbol{n} - \quad \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\sum \quad \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{l^{l-1}}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \quad \sum_{= \boldsymbol{l_s} + j_{sa} - k + 1} \quad \sum_{j_i = j^{sa} + s - j_{sa}}^{+ j_{sa}^{ik} - k \quad (\quad -k+1)}$$

$$\sum_{= \boldsymbol{n} + \Bbbk \ (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \quad \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \quad \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{(j^{sa}=j_{sa})}^{(\ _i l+1)} \sum_{=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{(\ +1)} \sum_{=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{}$$

$$\sum_{n_{ik}+ \ -\Bbbk_3-j^{sa}+1}^{n_{ik}+ \ j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{_i l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$$\frac{(l_s - k)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\,_il} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge l_i \leq D + s - \boldsymbol{n} \wedge$$

$1 \le j_s \le j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \le j_i \le \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s} \colon \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$

$s \ge 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z \colon z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s} \cdots \sum \sum_{(\ldots j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_{ik}-\ldots} \sum_{(j^{sa}\ldots k + j_{sa} - j_{sa}^{ik})}^{(l_{sa}\ldots+1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{\ldots = \boldsymbol{n}+\Bbbk \;(n_{is} = \boldsymbol{n}+\Bbbk - j_s + 1)}^{(n_i - j_s \ldots)} \sum_{n_{ik} = \boldsymbol{n}+\Bbbk_2+\Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n}+\Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa}\right)!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}+$$

$$\sum_{k=\ _il}\sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{sa=j_{sa}}^{\left(l_{sa}-\ _il+1\right)}\ _i l \qquad j_{sa}$$

$$\sum_{=n+\Bbbk}^{n}\sum^{(\ \ -j_{ik}+1)}$$

$$\sum_{n_{sa}=\ \Bbbk_3-j^{sa}+}^{n_{ik}+j_{ik}\ -\Bbbk_2}\sum_{(n_s=n-j_i+1)}^{(n_{sa}+j\ -j_i-\Bbbk_3)}$$

$$\frac{(n_i-\ _{ik}-\Bbbk_1-1)!}{(j_{ik}\ \ 2)!\cdot\ \ (\ -n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^s\ -j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(\ _l-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!}\cdot$$

$$\frac{\left(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa}\right)!}{\left(l_{sa}+j_{sa}^{ik}-j^{sa}-l_{ik}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}-$$

$$\sum_{k=1}^{\ _il-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ \ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_{ik}-k+1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ \ )}\sum_{j_i=j^{sa}+s-j_{sa}}$$

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$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2\cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s^{\;})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2\cdot j_s + j^{ik}_{sa} - j_{i} - \cdot j_{sa}^{s})!} \cdot$$

$$\frac{-k-1)!}{(\boldsymbol{l}_s - j_s - 1)! \cdot (j_s -)} \cdot$$

$$\frac{j_i}{(D+ - \boldsymbol{n} - \boldsymbol{l_i})!\, - j_i)!} -$$

$$\sum_{k=\,_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j^{ik}_{sa}} \sum_{(j^{sa}=j_{sa})}^{(\;)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\;)}$$

$$\frac{(n_i + 2\cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2\cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - 2\cdot j_{sa}^{s})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j^{ik}_{sa} + 1 \wedge j_s + j^{ik}_{sa} - 1 \leq j_{ik} \leq j^{sa} + j^{ik}_{sa} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s,j_{ik},j^{sa},j} = \sum_{k=1}^{l-1} \sum_{(j_s = j_{ik} - j_s - 1)}$$

$$\sum_{j_{ik}}^{\boldsymbol{l_s} + j_{sa}^{ik}} \sum_{(j^{sa} + j_{sa} - j_{sa}^{sa})} \sum^{(\boldsymbol{l_{sa}} - k + 1)} {}_{s - j_{sa}}$$

$$\sum_{n+\Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k={_i}\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(l_{sa} - {_i}\boldsymbol{l}+1)} \sum_{j_i}$$

$$\sum_{n_i=\boldsymbol{n}+}^{n} \sum_{=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-}^{(n_i-j_{ik}- \ -1)}$$

$$\sum_{n_{sa}=} \quad _{-j^{sa}+1} \quad \sum^{+1)}$$

$$\frac{(n_i - n_{ik} \quad \Bbbk_1 - 1)!}{(j_{ik}-2)! \quad n_i - n_{ik} \quad j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} \quad n_{sa} - 1)!}{(j^{sa} \quad -1)! \quad n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - \quad -1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{{_i}\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{\cdots - k - 1)!}{(\boldsymbol{l}_s - j_s - \cdots 1)! \cdot (j_s - \cdots}$$

$$\frac{\cdots j_i \cdots}{(D + \cdots - \boldsymbol{n} - \boldsymbol{l_i})! \cdots - j_i)!} -$$

$$\sum_{k=\,_il} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\;)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\;)}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i} \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$\begin{aligned}
{}_{fz}S_{j_s, j_{ik}, j^{sa}} &= \sum_{k=1}^{l-1} \sum_{(j_s}^{(l_{ik} - j_{sa}^{ik}+2)} \\
&\quad \sum_{j_{ik} = j_{sa}^{ik} - 1}^{(l_{sa} - k + 1)} \sum_{(j_{ik}+j_{sa} - j_{sa})}^{} \sum_{}^{is - j_{sa}} \\
&\quad \sum_{=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+1)}^{(n_i - j_s + 1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3 - j_{ik}+1}^{n_{is}+j_s - j_{ik} - \Bbbk_1} \\
&\quad \sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3 - j^{sa}+1)}^{(n_{ik}+j^{sa}-\Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa}+j^{sa} - j_i - \Bbbk_3}
\end{aligned}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k= \,_i l} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{\left(l_{sa}- \,_i l+1\right)} \sum_{j_i=\ldots a+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\ldots}^{n} \sum_{\ldots=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-\ldots 1)}^{(n_i-j_{ik}-\ldots 1)}$$

$$\sum_{n_{sa}=\ldots -j^{sa}+1}^{\ldots i+1)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - \ldots - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - \ldots - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{\,_i l-1} \sum_{(j_s=2)}^{\left(l_{ik}-k-j_{sa}^{ik}+2\right)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

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$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - \ldots - j_{\cdots} - \cdot j_{sa}^s)!} \cdot$$

$$\frac{- k - 1)!}{(\boldsymbol{l}_s - j_s - \ldots 1)! \cdot (j_s - 2\ldots}$$

$$\frac{\ldots j_{i\cdots}}{(D + \ldots - \boldsymbol{n} - \boldsymbol{l_i})! \cdots - j_i)!} -$$

$$\sum_{k=\,_il}^{(\quad)} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge l_i + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l-1}-k+1} \sum_{(j-2)}$$

$$\sum_{j_{ik}=\cdots j_{sa}^{ik}-1 \ (j\cdots j_{ik}+j_{sa}-j_{sa}\cdots)}^{(l_{sa}-k+1)} \sum \sum^{\cdots s - j_{sa}}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk\cdots+1)}^{\cdots n_i - j_s + 1} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+\cdots j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{\left(l_{sa}-\ _i\boldsymbol{l}+1\right)} \sum_{j_i}^{sa+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{\ \ =\boldsymbol{n}+\mathbb{k}_2+\mathbb{k}_3-j\ \ )}^{(n_i-j_{ik}-\ \ -1)}$$

$$\ldots j_{ik}-j^{sa}-\mathbb{k}_2 \ldots a + j^{sa}-j_i-\mathbb{k}_3)$$

$$\sum_{n_{sa}=\ \ -j^{sa}+1} \sum^{\ \ +1)}$$

$$\frac{(n_i - n_{ik} \ldots \mathbb{k}_1 - 1)!}{(j_{ik}-2)! \ldots n_i - n_{ik} \ldots j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} \ldots n_{sa} - 1)!}{(j^{sa} \ldots -1)! \ldots n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - \ \ -1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{\ _i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{-k-1)!}{(\boldsymbol{l}_s - j_s - \quad 1)! \cdot (j_s - 2} \cdot$$

$$\frac{j_i}{(D+\quad-\boldsymbol{n}-\boldsymbol{l_i})!\quad -j_i)!} -$$

$$\sum_{k=\,_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$\qquad D > \boldsymbol{n} < n$

$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \le D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$

$s \ge 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k\ldots}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik} = j_{sa}^{ik} \ldots}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + \ldots - s)}^{(\ )} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\ldots + \ldots - j_{sa}^{ik} + 1}$$

$$\sum_{n_i = \boldsymbol{n} \ldots}^{n} \sum_{(n_{is} = \boldsymbol{n} + \ldots + 1)}^{(n_i - \ldots)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{l_{ik} - k + 1} \sum_{(j^{sa} = j_i + \ -s)}^{(\ )} \sum_{j_i = l_{ik}}^{l_i - \ + 1}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = \ -\Bbbk - j_s \ )}^{(n_i - j_s + 1)} \sum_{\ = n + \ \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} \ + \Bbbk_3 - j^{sa}\ )}^{(n_{ik} + j_{\ }^{\ sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + \ - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - \ )! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \ - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=\ _il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\sum_{j_i=\boldsymbol{l_i+n}}^{\boldsymbol{l_i}-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^s}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{j^{sa}-\Bbbk_3}$$

$$\frac{(\ -\Bbbk_1\ +1)!}{(\ -2)!\cdot(\ -n_{ik}\ +1)!}\cdot$$

$$\frac{(n_{ik}\ -1)!}{(j^{sa}-j_{ik}-\ )!\cdot(n_{ik}\ -n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\ -\Bbbk_3-1)!}{(\ _i-j^s\ -1)!\cdot(\ +j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s...})!}$$

$$\frac{(\boldsymbol{l_s} - k -)!}{(\boldsymbol{l_s} - j_s - k + 1)! \ (\ _s - 2)!}$$

$$\frac{(D - l_{..})}{(D + j_{i..}\boldsymbol{n} - l_i)! \cdot (\boldsymbol{n}\ \ j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{..} \leq j_{..} + j_{sa}^{ik} - \ _{..} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} - \ _{..} \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \ \boldsymbol{l_i} + j_{sa} - s = \ _{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s \ _{..}$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{..} < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \{j_{sa}^s \ \cdots, \Bbbk_{..}, j_{sa}^{ik}, \Bbbk_2 \ _{..a}, \cdots, \Bbbk_3, j_{sa}^i\} \ _{..}$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} = s \ \ k \wedge$

$\Bbbk_z: \ _{..} \ 3 \wedge \Bbbk = \Bbbk_1 \ \ \Bbbk_2 + \Bbbk_3$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\ )} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_s} + s - k}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!}$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(j_s+j_i-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(k+\boldsymbol{l_{sa}}+j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}_i-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \quad)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\quad k - 1 \quad)!}{(\boldsymbol{l_s} - \quad - k + \quad - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \quad)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} \quad)(j^{sa} + j_s \quad - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \quad)}{(D + j_i \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k={_il}} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-{_il}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\mathbb{k}_2+\mathbb{k}_3-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\mathbb{k}_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\mathbb{k}_3)}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + j_{sa})}^{(\ )} \sum_{\ = \ \boldsymbol{n} - D}^{\ + s - k}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{\ } = \ + \Bbbk \ )}^{(n_i - j_s + 1)} \sum_{n_{ik} = \ j_s - j_{ik} - \Bbbk_1}^{\ }$$

$$\sum_{(n_{sa} = n_{ik} + \ j^{sa} - \Bbbk_2)}^{(\ )} \sum_{\ n_{sa} + j^{sa} - j_i - \Bbbk_3}^{\ }$$

$$\frac{(n_i + 2 \cdot j_s + j_{\ } - j_{ik} - j_i - \ - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \ - \Bbbk_1 \ _2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$\ \geq \boldsymbol{n} < \ \wedge \boldsymbol{l_s} \leq D - \ + 1 \wedge$

$1 \leq j_{\ } \leq j_{ik} - \ \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - \ ^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\ - j_{sa}^{ik} \ = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s} : \{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \} \wedge$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=l_i+\boldsymbol{n}+j_{sa}-D-s)}^{(l_{ik}+j_{sa}-k-j_{sa}^{ik}+1)} \sum_{j_i=\quad+s-j_{sa}}^{\quad}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}}^{j_s-j_{i}\quad\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\quad-j^{sa}+1)}^{\quad j^{sa}-\Bbbk_2)} \sum_{n_s=\quad-j_i+1}^{\quad+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n - \Bbbk_1 - 1)!}{(\quad - j_s \quad_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{s}\quad - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

504   $D > \boldsymbol{n} < n$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_{ik}-k+1} \sum_{(j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2)}^{(l_i+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s - j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i - 1)}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!}$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=l_i+\boldsymbol{n}+j_{sa}-D-s)}^{\left(l_i+j_{sa}-{}_il-s+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j\cdots)!}$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)\cdots}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-\cdots-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-\cdots}{(n_s+j_i\cdots\boldsymbol{n}-1)!\cdot(\boldsymbol{n}\cdots i)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}\cdots\boldsymbol{l_{ik}}-j_{sa}\cdots)}{(\boldsymbol{l_{sa}}\cdots_{sa}^{ik}-j^{sa}-\boldsymbol{l_{i}}\cdots)!\cdot(j\cdots^{ik}\cdots_k-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(\cdots+j_i-\cdots\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{\cdots\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{\cdots=\cdots_{sa}^{ik}-j_{sa}}^{\cdots} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^{s})!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$\kappa_z S_{j_s, j_{ik}, j^{sa}} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s)}^{(\boldsymbol{l_s} + j_{sa} - k)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s}$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - - j_{sa})!}$$

$$\frac{()!}{(D + \boldsymbol{n} - \boldsymbol{l_i})! \cdot (j_i)!} +$$

$$\sum_{k} \sum_{(j_{sa}^{ik}+1)} \binom{}{}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}} \sum_{(j^{sa}+j_{sa}-k+1)}^{(\boldsymbol{l_i}+j_{sa}-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n +\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i - j)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k={}_i l} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{\left(\boldsymbol{l_i}+j_{sa}-{}_i l-s+1\right)} \sum_{j_i} j_{sa}$$

$$\sum_{={}\boldsymbol{n}+\mathbb{k}}^{n} \sum^{(n_i-j_{ik}-\mathbb{k}_1+1)}$$

$$\sum_{n_{ik}+j_{ik}}^{-\mathbb{k}_2} \sum_{(n_{sa}+j}^{(-\mathbb{k}_2-j_{ik}+1)}{}^{-j_i-\mathbb{k}_3)}$$

$$\sum_{n_{sa}=}^{-\mathbb{k}_3-j^{sa}+} \sum_{(n_s=\boldsymbol{n}-j_i+1)}$$

$$\frac{(n_i - {}_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot ({}_i l - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^s - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - - - j_{sa}^s\right)!} \cdot$$

$$\frac{- k - 1)!}{(\boldsymbol{l}_s - j_s -)! \cdot (j_s - 2} \cdot$$

$$\frac{(D -)!}{(D - j_i - \boldsymbol{n} - \boldsymbol{l}_{ik} - \boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} j^{sa} + j_{sa}^{ik} - j \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + - s \wedge j + s - j \leq j_i   \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s - j_{sa} > \boldsymbol{l}_{ik} \wedge + j_{sa} - s = \boldsymbol{l}_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l}_i \leq D + \boldsymbol{l}_s + s - 1 \wedge$

$D \geq < n I = \Bbbk 0 \wedge$

$j_{sa}^{} < j_{sa}^i - 1 \wedge j ^{ik} = j_{sa} \wedge j_{sa}^s ^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_s , \dots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, \dots, \Bbbk_3, j_{sa}\} \wedge$

$s \geq 6 \wedge s < s + \Bbbk \wedge$

$\Bbbk_z: 3 \wedge \Bbbk = + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_i+\boldsymbol{n}+j_{sa}^{ik}-D-s-1} \sum_{(j^{sa}=\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}-D-s)}^{(l_i+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{\ }- j_s + 1)} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_{\ } - j_{\ } - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - \ - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + \ - n_{sa} - j^{\ })} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{\ } - 1)! \cdot (\ + j^{sa} - \ - \Bbbk_3)!} \cdot$$

$$\frac{(\ - n_s - 1)!}{(\ + j_i - \ - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l}\ - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}}\ - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_i}+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s + \cdots - \boldsymbol{n} - 1)!}{(n_s + \cdots - \boldsymbol{n} - \cdots - j_i)!} \cdot$$

$$\frac{(\cdots - k - 1)!}{(\cdots j_s - k \cdots)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^s \cdots \boldsymbol{l_{ik}})! \cdot (\cdots^a + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D \cdots \boldsymbol{l_i})!}{(D + \cdots - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {}_i \boldsymbol{l}} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s)}^{\left(\boldsymbol{l_i} + j_{sa} - {}_i\boldsymbol{l} - s + 1\right)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa}^{ik} - D}^{\boldsymbol{l_{ik}} - k + 1} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_s)}^{(\ )} \sum_{j_i = j^{sa} + s - j_{sa}}^{(\ )}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{(\ )} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s)}^{(\ )} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{(\ )}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \Bbbk_2)}^{(\ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \ge \boldsymbol{n} < n \wedge \boldsymbol{l_s} \le D - \boldsymbol{n} + 1 \wedge$

$1 \le j_s \le j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \le j_i \le \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \le D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = -j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_i + n + j_{sa}^{ik} - D - s - 1} \sum_{(j^{sa}=l_i+n+ \ \ -D-s)}^{(l_i + j_{sa} - k - \ )} \sum_{j_i = j^{sa}+s}$$

$$\sum_{n_i = n + \ }^{n} \sum_{(n_{is}=n+\Bbbk \ \ +1)} \sum_{n_{ik}=n+\Bbbk_2 \ \ -j_{ik}+1}^{\ _{is}-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n \ \ _3-j^{sa}+1)}^{+j_{ik}-j \ \ )} \sum_{n_s = n-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} \ \ {}_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_i+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2-\;-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j\;-)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{\;j^{s}\;\;j_i-\Bbbk_3}$$

$$\frac{(\;-n_{is}\;1)!}{(j_s\;-2)!\cdot(n_i\;\;_s+1)!}\cdot$$

$$\frac{(\;-n_{ik}\;\;-1)!}{(\;_{k}-j_s-1)!\cdot(\;_{is}+j_s-\;_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}\;-n_{sa}-1)!}{(j^{sa}\;-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\;^{a}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\;_i\boldsymbol{l}}^{} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{\left(l_i+j_{sa}-\;_i\boldsymbol{l}-s+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-j_i-\boldsymbol{n}-j_i)!}{(n_s-j_i-\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{sa}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j^{sa}_{sa}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D-j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j^{ik}_{sa}+1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j^{ik}_{sa}-D-s}^{\boldsymbol{l_s}+j^{ik}_{sa}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j^s_{sa})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-2\cdot j^s_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} \; 1 \wedge$

$\boldsymbol{s} : \{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \}$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz} S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i \boldsymbol{l} - 1} \sum_{(j_s = 2)}^{(\boldsymbol{l_i} + \boldsymbol{n} - D - s)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s)}^{(\boldsymbol{l_i} + j_{sa} - k - s + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} -)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} -)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\phantom{l_{sa}} + j_{sa}^{ik} - \phantom{j_{sa}})!} \cdot$$

$$\frac{(- \boldsymbol{l_i})!}{(- \boldsymbol{n} -)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=}^{\boldsymbol{l}-1} \sum_{i_s = \boldsymbol{l_i} + \boldsymbol{n} - D - s + 1)}^{(k+2)}$$

$$\sum_{= j_s + j_{sa}}^{(\boldsymbol{l_i} + - k - s + 1)} \sum_{= j_{ik} + j_{sa} - j_{sa}^{ik})} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{} \sum_{(n_{is} = \boldsymbol{n}+\Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n}+\Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1} \sum_{(j_s = 1)}^{()}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{\left(\boldsymbol{l_i} + j_{sa} - s + 1\right)} \sum_{\boldsymbol{n} + j_{sa} - D}^{} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{(+1)} \sum_{=\boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}$$

$$\sum_{n_{ik} + j^{sa} - \Bbbk_2}^{} \sum_{n_{sa} = \Bbbk_3 - j^{sa} + 1}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = \boldsymbol{l_i} + \boldsymbol{n} - D - s + 1)}^{\left(\boldsymbol{l_{ik}} - k - j_{sa}^{ik} + 2\right)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{ik}^{ik})}^{(\;)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}-\ldots-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\ldots \cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\ldots-\Bbbk_3)!}\cdot$$

$$\frac{\ldots}{(\boldsymbol{n}+\ldots^{ik}-j_{ik}-\ldots-2\cdot j_{sa}^s)!}$$

$$\frac{(l_s-\ldots}{(l_s-j_s\ldots k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\ldots-l_i)!}{(D\ldots j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D-\boldsymbol{n}+\ldots \wedge$

$1 \leq j_s \leq j_{ik}-j_{sa}^{ik}+1 \wedge j_s+\ldots^{ik}-1 \leq j_{ik} \leq \ldots^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq \ldots^{sa} \leq j_i+j_{sa}-\ldots j^{sa}+\ldots j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{i\ldots}}-j_{sa}^{ik}+\ldots = \boldsymbol{l_s} \wedge \boldsymbol{l_{s\ldots}}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l_{i\ldots}} \wedge \boldsymbol{l_i}+j_{sa}-s = \boldsymbol{l_{sa}} \wedge$

$D+s-\boldsymbol{n} < \boldsymbol{l_i} \leq \ldots D+\boldsymbol{l_s}+\ldots-\boldsymbol{n}+\ldots 1 \wedge$

$D \geq \ldots < n \wedge I = \Bbbk > \ldots \wedge$

$j_{sa} < j_{sa}^i-\ldots \wedge j_{sa}^{ik} = j_{\ldots}-1 \wedge j_{sa}^s < j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}:\{\ldots,\ldots,\Bbbk_1,j_{sa}^{ik},\Bbbk_2,j_{sa},\cdots,\Bbbk_3,j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = \ldots+\Bbbk \wedge$

$\ldots \wedge \Bbbk = \Bbbk_1+\Bbbk_2+\Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_il-1}\sum_{(j_s=2)}^{(l_i+\boldsymbol{n}-D-s)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(l_i+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i-1)!}{(j_s-2)!\cdot(n_i-n_{is}-+1)!}$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{i^{l}-1} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_i+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(k+\boldsymbol{l_{sa}}-j_{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\,_i\boldsymbol{l}}\sum_{(j_s=1)}^{(\,)}\sum_{j_{ik}=j_{sa}^{ik}}$$

$$\sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_i}+j_{sa}-\,_i\boldsymbol{l}-s+1)}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \quad)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \quad_a)!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\quad_a - j_{sa})!} \cdot$$

$$\frac{(\quad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} -$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} \quad} \sum_{\quad =D - s + 1}^{(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{\quad = j_s + j_{sa}^{ik} - 1}^{(j^s \quad_{ik} + j_{sa} - j_{sa}^{k})} \sum_{\quad} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{\quad = \boldsymbol{n} + \Bbbk}^{(n_i - \quad 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \quad j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz} S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{a + j^{ik} - j_{sa}} \sum_{a = j_i + j_{sa}}^{(\quad)} \sum_{j_i = \boldsymbol{l_{sa}} + \boldsymbol{n} + s - D - j_{sa}}^{+s-j_{sa}^{ik}+1}$$

$$\sum_{n_i = \boldsymbol{n}}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk_3 + s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_i + \ -s)}^{(\ )} \sum_{j_i=\boldsymbol{l_{ik}}}^{\boldsymbol{l_{sa}}+s-\ j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\ \Bbbk -j_s\ )}^{(n_i - j_s +1)} \sum_{\ =\boldsymbol{n}+\ \Bbbk_3 - j_{ik}+1}^{n_{is}+j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa}\ +\Bbbk_3 - j^{sa}\ )}^{(n_{ik}+j_{\ }\ ^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+\ -j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - \ )! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \ - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_i l}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\sum_{j_i=\boldsymbol{l_{sa}}+\boldsymbol{n}+s-D-}^{\boldsymbol{l_{sa}}+s-\,_i\boldsymbol{l}-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\quad-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{j^{sa}-\Bbbk_3}$$

$$\frac{(\quad-\Bbbk_1\quad 1)!}{(\quad-2)!\quad(\quad-n_{ik}\quad\quad_1+1)!}\cdot$$

$$\frac{(n_{ik}-\quad-1)!}{(j^{sa}-j_{ik}-\quad)!\cdot(n_{ik}\quad\quad-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\quad-\Bbbk_3-1)!}{(\quad_i-j^{s}\quad 1)!\cdot(\quad+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\sum_{j_i=\boldsymbol{l_{sa}}+\boldsymbol{n}+s-D-j_{sa}}^{\boldsymbol{l_{ik}}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s}^{})!}$$

$$\frac{(\boldsymbol{l_s} - k -)!}{(\boldsymbol{l_s} - j_s - k + 1)! \, (_s - 2)!}$$

$$\frac{(D -)}{(D + j_i \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} i_{})!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{} \leq j_{} + j_{sa}^{ik} - \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} - \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \boldsymbol{l_i} + j_{sa} - s = _a \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{} < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \{j_{sa}^s \cdot , \Bbbk_{} , j_{sa}^{ik}, \Bbbk_{2} _a, \cdots, \Bbbk_3, j_{sa}^i\}$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} = \boldsymbol{s} k \wedge$

$\Bbbk_z: 3 \wedge \Bbbk = \Bbbk_1 \Bbbk_2 + \Bbbk_3$

$$_{fz}S_{j_s \, , j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)} \sum_{j_i=\boldsymbol{l_{sa}}+\boldsymbol{n}+s-D-j_{sa}}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{\boldsymbol{n}} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk\ )!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n\ -j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n\ -\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+\ ^{sa}-n_s-j_i\ )!}\cdot$$

$$\frac{(n_s\ -1)!}{(\ +j\ -1)\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s\ k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}\ \boldsymbol{l_{ik}}-j_{sa})!}{(\ +\boldsymbol{l_{sa}}\ ^{sa}-\boldsymbol{l_{ik}})!\ (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_{sa}}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i -)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\quad k - 1)}{(\boldsymbol{l_s} - \quad - k +) \quad - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - a\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} \quad)(j^{sa} + j_s - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - l_{ik})}{(D + j_i \quad \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \ _i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{k = j_{sa}^{ik}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\quad)} \sum_{j_i = \boldsymbol{l_{sa}} + \boldsymbol{n} + s - D - j_{sa}}^{\boldsymbol{l_{sa}} + s - \ _i\boldsymbol{l} - j_{sa} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\ )} \sum_{j_i = }^{l_s - k}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{ik} =)}^{(n_i - j_s + 1)} \sum_{n_{ik} = }^{j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j^{sa} - \Bbbk_2)}^{(\ )} \sum_{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j - j_{ik} - j_i - - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\geq n < \quad \wedge l_s \leq D - \quad + 1 \wedge$$

$$1 \leq j \leq j_{ik} - \quad \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - \quad^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$$

$$\quad - j_{sa}^{ik} \quad = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D \geq n < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$$

530     $D > \boldsymbol{n} < n$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}
$$

$$
\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=l_{sa}+\boldsymbol{n}-D)}^{(l_{ik}+j_{sa}-k-j_{sa}^{ik}+1)} \sum_{j_i=\;+s-j_{sa}}^{\;}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}}^{j_s-j_{ik}-\Bbbk_1}
$$

$$
\sum_{(n_{sa}=\boldsymbol{n}+\;-j^{sa}+1)}^{j^{sa}-\Bbbk_2} \sum_{n_s=\;-j_i+1}^{+j^{sa}-j_i-\Bbbk_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - \; - \Bbbk_1 - 1)!}{(\; - j_s \; \; _{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{s} \; - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$
\sum_{k=1}^{_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}
$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_{ik}-k+1} \sum_{(j^{sa}=l_{ik}+j_{sa}-k-j_{sa}^{ik}+2)}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i-1)!}{(j_s-2)!\,(n_i-n_{is}-+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}+$$

$$\sum_{k=_il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=l_{sa}+n-D)}^{(l_{sa}-_il+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{ik}=n+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j \cdot \cdot)!}$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - \cdot - \Bbbk_3)!}$$

$$\frac{(n_s - \cdot}{(n_s + j_i \cdot \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdot j_i)!} \cdot$$

$$\frac{\cdot + j^{ik}_{sa} - \boldsymbol{l}_{ik} \cdot j_{sa})!}{(\boldsymbol{l}_{sa} + j_{s} \cdot j^{s} \cdot)! \cdot^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(\cdot + j_i - \cdot \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{\cdot \boldsymbol{l}_s + s - \boldsymbol{n} - \boldsymbol{l}_i} \sum_{(j_s = j_{ik} - j^{ik}_{sa} + 1)}^{(\quad)}$$

$$\sum_{\cdot_{ik} \cdot + j^{ik}_{sa} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l}_{sa} + \boldsymbol{n} - D)}^{(\boldsymbol{l}_{ik} + j_{sa} - k - j^{ik}_{sa} + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j^{s}_{sa})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - 2 \cdot j^{s}_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i} \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{\Bbbk_z} S_{j_s, j_{ik}, j^{sa}} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(\boldsymbol{l_s} + j_{sa} - k)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s)} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j^{ik}_{sa} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j^{ik}_{sa} - - j_{sa})!}$$

$$\frac{()!}{(D + j \boldsymbol{n} - \boldsymbol{l_i})! \cdot (j_i)!} +$$

$$\sum \sum_{(j^{ik}_{sa}+1)}$$

$$\sum_{j_{ik} = j^{ik}_{sa}+1} \sum_{(j^{sa} + j_{sa} - k+1)} \sum_{j_i = j^{sa}+s-j_{sa}}$$

$$\sum_{n +\Bbbk} \sum_{(n_{is} = \boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=\;_i l} \sum_{(j_s=\;)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}\;\;a+n-D)}^{\left(l_{sa} - \;_i l + 1\right)} \sum_{j_i}^{\;\;j_{sa}}$$

$$\sum_{=n+\Bbbk}^{n} \sum_{(\;\;\Bbbk_2\;\;-j_{ik}+1)}^{(\;\;n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{ik}+j_{ik}}^{a-\Bbbk_2} \sum_{}^{(n_{sa}+j\;\;-j_i-\Bbbk_3)}$$

$$\sum_{n_{sa}=\;\;\Bbbk_3-j^{sa}+}^{} \sum_{(n_s=n-j_i+1)}^{}$$

$$\frac{(n_i - \;_{ik} - \Bbbk_1 - 1)!}{(j_{ik}\;\;2)! \cdot \;\;l - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{s}\;\; - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(\;_t - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=l_{sa}+n-D)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_i - j_{sa}^s\right)!} \cdot$$

$$\frac{-k-1)!}{(\boldsymbol{l}_s - j_s - \ldots 1)! \cdot (j_s - \ldots} \cdot$$

$$\frac{(D - \ldots)!}{(D - j_i - \boldsymbol{n} - \ldots - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \ldots j^{sa} + j_{sa}^{ik} - \ldots \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \ldots - s \wedge \ldots + s - \ldots \leq j_i < \ldots \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_s \ldots - j_{sa} > \boldsymbol{l_{ik}} \wedge \ldots + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l} \ldots \leq D + \boldsymbol{l_s} + j_{sa} \ldots \boldsymbol{n} - 1 \wedge$

$D \geq \ldots < n \wedge I = \Bbbk \ldots 0 \wedge$

$j_{sa} \ldots < j_{sa}^i - 1 \wedge \ldots^k = j_{sa} \ldots \wedge j_{sa}^s \ldots_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{s} \ldots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, \ldots, \Bbbk_3, j_{sa}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \ldots s + \Bbbk \wedge$

$\Bbbk_z: \ldots 3 \wedge \Bbbk = \ldots_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s\ ,j_{ik},j^{sa},j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \ )!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(\ - 1)!}{(n_s + \ - \boldsymbol{n} - \ - j_i)!} \cdot$$

$$\frac{(\ k - 1)!}{\ _s - k \ )! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa} \ \boldsymbol{l}_{ik} - j_{sa})}{(j_{ik} + \boldsymbol{l}_{sa} - j^s \ \boldsymbol{l}_{ik})! \cdot (\ ^a + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D \ \boldsymbol{l}_i)!}{(D + \ - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \ _i \boldsymbol{l}} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = \boldsymbol{l}_{sa} + \boldsymbol{n} - D)}^{\left(\boldsymbol{l}_{sa} - \ _i \boldsymbol{l} + 1 \right)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} ^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - }$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\quad)}$$

$$\sum_{j_{ik} = \boldsymbol{l_{sa}} + \boldsymbol{n} + j_{sa}^{ik} - D - \quad}^{\boldsymbol{l_{ik}} - k + 1} \sum_{j^{sa} = j_{ik} + j_{sa} - j\quad}^{\quad} \sum_{j_i = j^{sa} + s - j_{sa}}^{\quad}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{(\quad + j_s + 1)} \sum_{\quad = \boldsymbol{n} + \Bbbk - j_s}^{\quad} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{\quad}$$

$$\sum_{(\quad = n_{ik} + j_{ik}\quad - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{\quad}$$

$$\frac{(n_i + 2 \cdot j_s + \quad - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(\quad - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \quad \boldsymbol{n} \quad \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j \quad - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} \quad j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$\qquad D > \boldsymbol{n} < n$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}:\left\{ j_{sa}^s, \cdots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \cdots, \mathbb{k}_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = \cdots - j_{sa}^{ik} + 1)}^{(\ )}
$$

$$
\sum_{j_{ik} = j_{sa}^{ik} + 1}^{\boldsymbol{l_{sa}} + \boldsymbol{n} + j_{sa}^{ik} - D - j_{sa} - 1} \sum_{(j^{sa} = \boldsymbol{l_s} \cdots - D)}^{(\boldsymbol{l_{sa}} - \cdots)} \sum_{j_i = j^{sa} + \cdots}^{\cdots - j_{ik} - \mathbb{k}_1}
$$

$$
\sum_{n_i = \boldsymbol{n} + \cdots}^{n} \sum_{(n_{is} = n + \mathbb{k} \cdots + 1)}^{\cdots} \sum_{n_{ik} = n + \mathbb{k}_2 \cdots - j_{ik} + 1}^{\cdots}
$$

$$
\sum_{(n_{sa} = \boldsymbol{n} \cdots {}_3 - j^{sa} + 1)}^{\cdots + j_{ik} - j \cdots} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \mathbb{k}_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} \cdots {}_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$\sum_{k=1}^{_i l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}}^{l_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n+\Bbbk_2-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-j)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n-j_i+1}^{j^{s}+j_i-\Bbbk_3}$$

$$\frac{(\ -n_{is}\ 1)!}{(j_s\ )!\cdot(n_i\ +1)!}\cdot$$

$$\frac{(\ -n_{ik}\ -1)!}{(\ -j_s-1)!\cdot(\ +j_s\ -j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}\ n_{sa}-1)!}{(j^{sa}\ -1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\ -1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}+$$

$$\sum_{k=\ _i l}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=l_{sa}+n-D)}^{(l_{sa}-\ _i l+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(\quad)}{(n_s-j_i-\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{\quad}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{\quad}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}-j_{sa})!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D-j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2 \cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2 \cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n}+2 \cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D \geq n < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} \cdots 1 \wedge$$

$$s : \{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \},$$

$$s \geq 6 \wedge s = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{(l_{sa} + n - D - j_{sa})}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa} = l_{sa} + n - D)}^{(l_{sa} - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = n + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - }$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1) \quad (j_s - 2)!}$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \quad)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\quad {sa} + j_{sa}^{ik} - \quad j_{sa})!} \cdot$$

$$\frac{(\quad \boldsymbol{l_i})!}{ \quad \boldsymbol{n} - \quad \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{I-1} \sum_{(\quad \boldsymbol{l_{sa}} + \boldsymbol{n} - D - j_{sa} + 1)}^{(l_{ik} \quad 2)}$$

$$\sum_{ \quad = j_s + j_{sa}}^{(\quad -k+1)} \sum_{ \quad = j_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{ \quad \boldsymbol{n} + \Bbbk}^{(n_i - j_s + 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - }$$

$$\sum_{k=}^{} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}}^{\left(l_{s}\;\;l+1\right)} \sum_{a=l_{sa}+n-}^{} \sum_{=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=n+\Bbbk}^{(\;\;\;+1)} \sum_{=n+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{}$$

$$\sum_{n_{ik}+\;\;j^{sa}-\Bbbk_2}^{} \sum_{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{}$$

$$\sum_{\Bbbk_3-j^{sa}+1}^{} \sum_{(n_s=n-j_i+1)}^{}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{{}_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_{sa}+n-D-j_{sa}+1)}^{\left(l_{ik}-k-j_{sa}^{ik}+2\right)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}\ldots a-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\quad\Bbbk_3\ldots\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\quad-\Bbbk_3)!}\cdot$$

$$\frac{}{(\boldsymbol{n}+\ldots{ik}-j_{ik}\ldots i-2\cdot j_{sa}^s)!}$$

$$\frac{(\boldsymbol{l}_s-k\ldots}{(\boldsymbol{l}_s-j\ldots k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\ldots-\boldsymbol{l}_i)!}{(D\ldots j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + \ldots \wedge$

$1 \leq j_s \leq j_{ik}-j_{sa}^{ik}+1 \wedge j_s + \ldots^{ik}-1 \leq j_{ik} \leq \ldots_{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq \ldots^{sa} \leq j_i+j_{sa}-\ldots j^{sa}+s\ldots j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l}_{i\ldots}-j_{sa}^{ik}+\ldots=\boldsymbol{l}_s \wedge \boldsymbol{l}_{s\ldots}+j_{sa}^{ik}-j_{sa} > \boldsymbol{l}_{i\ldots} \wedge \boldsymbol{l}_i+j_{sa}-s=\boldsymbol{l}_{sa} \wedge$

$D+j_{sa}-\boldsymbol{n} < \boldsymbol{l}_{s\ldots} < D + \boldsymbol{l}\ldots j_{s\ldots} \boldsymbol{n}-1 \wedge$

$D \geq \boldsymbol{n}\ldots n \wedge I = \Bbbk > \ldots \wedge$

$j_{sa} < j_{sa}^i - \ldots \wedge j_{sa}^{ik} = j\ldots-1 \wedge j_{sa}^s < j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: \{\ldots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = \ldots + \Bbbk \wedge$

$\ldots \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l}_{sa}+\boldsymbol{n}-D-j_{sa})}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s\ -j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i\ -1)}{(j_s-2)\ (n_i-n_{is}\ +1)!}$$

$$\frac{(n_{is}-n_{ik}-\Bbbk\ 1)!}{(j_{ik}-j_s-1\ +j_s-n\ -j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-1)}{(j^{sa}-j_{ik}-1)!\cdot(\ +j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}\ n_s-\Bbbk_3\ 1)!}{(j_i\ _{sa}-1)!\cdot(n_s+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\ _{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{i^{\boldsymbol{l}-1}} \sum_{(j_s=\boldsymbol{l_{sa}}+\boldsymbol{n}-D-j_{sa}+1)}^{(\boldsymbol{l_s}-k-1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(k + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-\ _i\boldsymbol{l}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \qquad)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - \quad a\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (\quad a - j_{sa})!} \cdot$$

$$\frac{(\quad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} - $$

$$\sum_{\quad =1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{\quad -j_{sa}+1}^{(\boldsymbol{l_s} - k - 1)}$$

$$\sum_{\quad =j_s + j_{sa}^{ik} - 1}^{} \sum_{(j^{s} \quad ik + j_{sa} - j_{sa}^{ik})}^{} \sum_{j_i = j^{sa} + s - j_{sa}}^{}$$

$$\sum_{\quad = \boldsymbol{n} + \Bbbk}^{(n_i - \quad 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{}$$

$$\frac{(n_i + \quad j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\qquad D > \boldsymbol{n} < n$

$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j} = \sum_{k=1}^{l-1} \sum_{(j_s = j_{ik} - \cdots 1)} \cdots
$$

$$
\sum_{=j_{sa}^{ik}+1}^{j^{sa}+j^{ik} \cdots} \sum_{sa=j_{sa}+1)}^{(j_i+j_{sa}- \cdots} \sum \cdots^{\cdots+j_{sa}^{ik}-k-s+1}
$$

$$
\sum_{=\boldsymbol{n}+\Bbbk \,(n_{is}=\boldsymbol{n}+\Bbbk \cdots+1)}^{n} \sum^{\cdots-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}
$$

$$
\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+\cdots-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{sa}+1)}^{(l_{sa}-k+1)} \sum_{j_i = \ldots}^{l_i \ldots +1}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is} \ldots)}^{(n_i-j_s+1)} \sum_{\ldots=n \ldots \Bbbk_3 - j_{ik}+1}^{n_{is}+j_s-j_{ik}-\ldots}$$

$$\sum_{(n_{s} \ldots +\Bbbk_3 - j^{s} \ldots)}^{(n_{ik}+\ldots j^{sa}-\Bbbk_2)} \sum_{n_s=n-j_i+1}^{n_{sa} \ldots -j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - \ldots)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \ldots - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=\ _i l}^{(\ )}\sum_{(j_s=1)}^{}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\left(l_{sa}-\ _i l+1\right)}\sum_{(j^{sa}=j_{sa})}^{l_i-\ _i l+1}\sum_{j_i=}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(\ ^{sa}\ -\Bbbk_3)}$$

$$\frac{(\ -\Bbbk_1\ )!}{(\ -2)!\cdot(\ -n_{ik}\ +1)!}\cdot$$

$$\frac{(n_{ik}-\ -1)!}{(j^{sa}-j_{ik}-\ )!\cdot(n_{ik}+\ -n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\ -\Bbbk_3-1)!}{(\ -j^{s}\ \ -1)!\cdot(\ +j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{\ _i l-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\sum_{j_i=s+1}^{\boldsymbol{l_{ik}}+j_{sa}^{ik}-k-s+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ \ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{sa}^s)!}\cdot$$

$$\frac{(\quad - k - 1)!}{(\boldsymbol{l}_s - j_s - \quad 1)!\cdot(j_s - \quad)}\cdot$$

$$\frac{\quad }{(D + \quad - \boldsymbol{n} - \boldsymbol{l_i})!\cdot(\quad - j_i)!} -$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!\cdot(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{sa}^s)!}\cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})!\cdot(\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$D > \boldsymbol{n} < n$

$$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j} = \sum_{\substack{k=1 \\ (j_s = j_{ik} - j_s + 1)}}^{l-1} \sum_{\substack{j_{ik} = \ldots + 1 \\ (j^{sa} \ldots)}}^{sa + j_{sa}^{ik} - j_{sa}} \sum_{}^{(\ldots j_{sa} - s)} \sum_{\ldots = s+1}^{l_s + s - k}$$

$$\sum_{\substack{\ldots = \boldsymbol{n} + \Bbbk \\ (n_{is} = \boldsymbol{n} + \Bbbk \ldots + 1)}}^{n} \sum_{\substack{\ldots \\ (\ldots - j_s + 1)}} \sum_{\substack{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{\substack{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}}^{(n_{ik} + \ldots - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l_i - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{()} \sum_{j_{ik} = j_{sa}^{ik} + 1}^{l_s + j_{sa}^{ik} - k} \sum_{(j^{sa} = j_{sa} + 1)}^{(l_{sa} - k + 1)} \sum^{-k+1}_{+k+1}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = \Bbbk - j_s)}^{(n_i - j_s + 1)} \sum_{=n +}^{n_{is} + j_s - j_{ik} - \Bbbk_1} \sum_{\Bbbk_3 - j_{ik} + 1}$$

$$\sum_{(n_{sa} + \Bbbk_3 - j^{sa})}^{(n_{ik} + j + j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - , - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=\,_i l}^{} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\left(l_{sa}-\,_i l+1\right)} \sum_{(j^{sa}=j_{sa})}^{l_i-\,_i l+1} \sum_{j_i=}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\;-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(\;^{sa}\;-\Bbbk_3)}$$

$$\frac{(\quad-\Bbbk_1\quad)!}{(\quad-2)!\cdot(\quad-n_{ik}\quad+1)!}\cdot$$

$$\frac{(n_{ik}-\quad-1)!}{(j^{sa}-j_{ik}-\quad)!\cdot(n_{ik}+\quad-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\quad-\Bbbk_3-1)!}{(\quad-j^{s}\quad1)!\cdot(\quad+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}}\right)!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}\;-$$

$$\sum_{k=1}^{_i l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=s+1}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^{s})!}\cdot$$

$$\frac{(\quad-k-1)!}{(\boldsymbol{l}_s-j_s-\quad1)!\cdot(j_s-\quad)}\cdot$$

$$\frac{j_i}{(D+\quad-\boldsymbol{n}-\boldsymbol{l_i})!\quad-j_i)!}-$$

$$\sum_{k=\ _il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=j_{sa})}^{(\ )}\sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!\cdot(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^{s})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+s-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-s)!}$$

$D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_i}\leq D+s-\boldsymbol{n}\wedge$

$1\leq j_s\leq j_{ik}-j_{sa}^{ik}+1\wedge j_s+j_{sa}^{ik}-1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq j_i+j_{sa}-s\wedge j^{sa}+s-j_{sa}\leq j_i\leq\boldsymbol{n}\wedge$

$$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i} \} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$\,_{fz}S_{j_s, j_{ik}, j^{sa}, j} = \sum_{\substack{k=1 \\ (j_s = j_{ik} - ... - 1)}}^{l-1} ...$$

$$\sum_{\substack{j_{ik} = ...^{ik} + 1}}^{j^{sa} + j_{sa}^{ik} - ...} \sum_{\substack{...a = j_{sa} + 1)}}^{(l_{ik} + j_{sa}^{ik} - k - ...)} \sum_{\substack{...s - j_{sa}}}^{l_i - k + 1}$$

$$\sum_{\substack{...n + \Bbbk \ (n_{is} = \boldsymbol{n} + \Bbbk ... + 1)}}^{n} \sum_{\substack{(... - j_s + 1)}}^{...} \sum_{\substack{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{\substack{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}}^{(n_{ik} + ... - j^{sa} - \Bbbk_2)} \sum_{\substack{n_s = \boldsymbol{n} - j_i + 1}}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_{ik}-k+1} \sum_{(j^{sa}=l_{ik}+j^{ik}-k-s+2)}^{(l_{sa}-k+1)} \sum^{-k+1}_{-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}}^{(n_i-j_s+1)} \sum_{=n}^{n_{is}+j_s-j_{ik}-\Bbbk}_{+\Bbbk_3-j_{ik}+1}$$

$$\sum_{(n_{sa}}^{(n_{ik}+}}^{j^{sa}-\Bbbk_2)} \sum_{n_s=n-j_i+1}^{n_{sa}}{}^{-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - -1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$\qquad D > \boldsymbol{n} < n$

$$\sum_{k=\,_i l} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(l_{sa}-\,_i l+1)} \sum_{j_i=j^{sa}+s-}^{l_i-\,_i l+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ldots-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(\,^{sa}\,-\Bbbk_3)}$$

$$\frac{(\ldots-\Bbbk_1\ldots)!}{(\ldots-2)!\cdot(\ldots-n_{ik}\ldots+1)!} \cdot$$

$$\frac{(n_{ik}-\ldots-1)!}{(j^{sa}-j_{ik}-\ldots)!\cdot(n_{ik}+\ldots-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-\ldots-\Bbbk_3-1)!}{(\ldots-j^{s\ldots}-1)!\cdot(\ldots+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{_i l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_{ik}}+j_{sa}^{ik}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\quad - k - 1)!}{(\boldsymbol{l}_s - j_s - \quad 1)! \cdot (j_s - \quad)} \cdot$$

$$\frac{l_i}{(D + \quad - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot \quad - j_i)!} -$$

$$\sum_{k=\,_il}^{} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\quad)} \sum_{j_i=s}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\quad)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + s - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_i \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

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$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j} = \sum_{k=1}^{l-1} \sum_{(j_s = j_{ik} - j_s + 1)}
$$

$$
\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{ik}-j_{sa}} \sum_{j^{sa}=j_{sa}+1}^{(l_s+j_{sa})} \sum^{l_i-k+1}_{s - j_{sa}}
$$

$$
\sum_{(n_{is}=\boldsymbol{n}+\Bbbk+1)}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk+1)}^{(\cdots - j_s + 1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}
$$

$$
\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+\cdots-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{l_s + j_{sa}^{ik} - k} \sum_{(j^{sa} = l_{sa} + j_{sa} - k + 1)}^{(l_{sa} - k + 1)} \sum^{k+1}_{j_{sa}}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} - \Bbbk - j_s)}^{(n_i - j_s + 1)} \sum_{= n + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} + \Bbbk_3 - j^{sa})}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - , - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=\,_i l} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{\left(l_{sa}-\,_i l+1\right)} \sum_{j_i=j^{sa}+s-}^{l_i-\,_i l+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(\ ^{jsa}\ -\Bbbk_3)}$$

$$\frac{(\ \ -\Bbbk_1\ \ )!}{(\ \ -2)!\cdot(\ -n_{ik}\ \ +1)!} \cdot$$

$$\frac{(n_{ik}-\ -1)!}{(j^{sa}-j_{ik}-\ )!\cdot(n_{ik}+\ -n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-\ -\Bbbk_3-1)!}{(\ -j^{s}\ )!\cdot(\ +j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{\left(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa}\right)!}{\left(l_{sa}+j_{sa}^{ik}-j^{sa}-l_{ik}\right)!\cdot(j^{sa}-j_{sa})!} \cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{_i l-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(\quad - k - 1)!}{(\boldsymbol{l}_s - j_s - \quad 1)! \cdot (j_s - 2\quad)} \cdot$$

$$\frac{\quad j_i \quad}{(D + \quad - \boldsymbol{n} - \boldsymbol{l}_i)! \quad - j_i)!} -$$

$$\sum_{k=\ _il}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + s - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_i \leq D + s - \boldsymbol{n} \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$\qquad D > \boldsymbol{n} < n$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j\ldots} = \sum_{k=1}^{l-1} \sum_{(j_s = j_{ik} - \ldots 1)}^{\ldots}$$

$$\sum_{j\ldots^{ik}+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{\ldots}+j_{sa}-j_{sa})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{\ldots-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk\ldots+1)}^{\ldots-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+\ldots j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=\,_il}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{(l_{sa}-\,_il+1)} \sum_{(j^{sa}=j_{sa})}^{\,_il+1} \sum_{}^{-j_{sa}}$$

$$\sum_{=n}^{n} \sum_{-n+}^{(n_i-j_{ik}-\Bbbk_1+1)} {}_{\Bbbk_3-j_{ik}+1}$$

$$\sum_{n_{sa}}^{n_{ik}+j_{ik}} {}_{sa-\Bbbk_2} \sum_{\Bbbk_3-j^{sa}+}^{(n_{sa}+)} {}_{j_i-\Bbbk_3} \sum_{(n_s=n-j_i+1)}^{}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(\ \ -2)! \cdot (\ - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{s} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(- j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{\,_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

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$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{(\ \ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{\left(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1\right)}^{\left(n_i-j_s+1\right)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}$$

$$\sum_{\left(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2\right)}^{(\ \ )} \sum_{n_s=n_{sa}-j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s}\right)!}{\left(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3\right)!}\cdot$$

$$\frac{1}{\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^{s}\right)!}$$

$$\frac{\left(\boldsymbol{l_s}-k\right)}{\left(\boldsymbol{l_s}-j_s-k+1\right)!\cdot\left(j_s-2\right)!}\cdot$$

$$\frac{\left(D-\boldsymbol{l_i}\right)!}{\left(D+s-\boldsymbol{n}-\boldsymbol{l_i}\right)!\cdot\left(\boldsymbol{n}-j_i\right)!}-$$

$$\sum_{k=\ _i\boldsymbol{l}}\sum_{(j_s=1)}^{(\ \ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{\left(j^{sa}=j_{sa}\right)}^{(\ \ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{\left(n_{ik}=n_i-j_{ik}-\Bbbk_1+1\right)}^{(\ \ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{\left(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3\right)}^{(\ \ )}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s}\right)!}{\left(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3\right)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^{s}\right)!}\cdot$$

$$\frac{\left(D-\boldsymbol{l_i}\right)!}{\left(D+s-\boldsymbol{n}-\boldsymbol{l_i}\right)!\cdot\left(\boldsymbol{n}-s\right)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D+s-\boldsymbol{n} \wedge$

$$1 \le j_s \le j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \le j_i \le \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \ge 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s} \cdots \sum \cdots \sum_{\cdots (\cdots - j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}} \sum_{\left(j^{sa}\cdots k+j_{sa}-j_{sa}^{ik}\right)}^{(\boldsymbol{l_{sa}} \cdots 1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{\cdots a+\Bbbk}^{\cdots} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j\cdots)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \ldots)!}$$

$$\sum_{k=} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{(j^{sa}=j_{sa})} \sum_{=j^{sa}+s-j_{sa}}^{l_i-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}$$

$$\sum_{\ldots_3-j^{sa}+1}^{n_{ik}+\ldots j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{\ldots_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{{}_{i}\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+\ \ +j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2\ \ =n_{sa}+j^{sa}-j_i-\ )}^{(\ )}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-\ \ \ -\Bbbk_2-\Bbbk_3-\ \ -2\cdot j_{sa}^s\right)!}{\left(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3\right)!}\cdot$$

$$\frac{}{\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-\ \ -j_i-2\cdot j_{sa}^s\right)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l}\ \ -j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k={}_{i}\boldsymbol{l}}^{\ } \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\ } \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{\ }$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{\ } \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s\right)!}{\left(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3\right)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^s\right)!}\cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_{ik}-k-j_{sa}^{ik}+2)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{(j^{sa}-k+1)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{l_i-k+1} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{(n_i-j_s+1)} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{n_{is}+j_s-j_{ik}-\Bbbk_1} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum \sum_{(j_s=1)}$$

$$\prod_{j_{ik}=j_s}^{(\boldsymbol{l_s} - j_s \boldsymbol{l}+1)} \sum_{(j^{sa}=j_{sa})} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i} - j_{sa} \boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}+2)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa})}^{()}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=}^{(n_i-j_s+1)} \sum_{-j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}}^{()} \sum_{-j^{sa}-\Bbbk_2} \sum_{=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + \cdots - j_{ik} - j_i - \cdots - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \cdots \boldsymbol{n} - \Bbbk_1 - \cdots_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=_i\boldsymbol{l}}^{()} \sum_{(j_s=1)}^{()}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{()} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{()}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \overset{(\quad)}{\sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \quad)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n}$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \quad \quad \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \quad \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i \boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} + } \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - }{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\phantom{)^{ik}} + j_{sa}^{ik} - \phantom{j_{sa})!}} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} -) \cdot (j_i + - j^{sa} - s)!} \cdot$$

$$\frac{(D - }{(D + j_i - n - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \,_i \boldsymbol{l}} \sum_{(j_s = 1)}^{()}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}^{\left(\boldsymbol{l_{sa}} - \,_i \boldsymbol{l} + 1 \right)} \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l_i} - \,_i \boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{} \sum_{j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}}^{} \sum_{=j_{ik}+j_{sa}-j_s}^{} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=n+\Bbbk}^{} \sum_{=n+\Bbbk-j_s}^{} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(=n_{ik}+j_{ik}-\Bbbk_2)}^{} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}^{}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n - n - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=_i l}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{}$$

$\qquad D > \boldsymbol{n} < n$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j^s_{sa}\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j^{ik}_{sa} - j_{ik} - \_ - 2\cdot j^s_{sa}\right)} \cdot$$

$$\frac{(D - \boldsymbol{l_i})\_}{(D + s - \_)! \cdot \_ - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j^{ik}_{sa} + 1 \wedge j_s + j^{ik}_{sa} - 1 \leq j_{ik} \leq j^{sa} + \_ \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s \_ \leq j_i \_ \_ \wedge$

$\boldsymbol{l_{ik}} - j^{ik}_{sa} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{ik}_{sa} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \_ > \boldsymbol{l_{sa}} \_$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j^i_{sa} - 1 \wedge j^{ik}_{sa} = j_{sa} \_ \wedge j^s_{sa} < j^{ik}_{sa} \_ \_ \wedge$

$\boldsymbol{s}: \left\{j^s_{sa}, \cdots, \Bbbk_1, j^{ik}_{sa}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, \_\right\} \wedge$

$s \geq 0 \_ \boldsymbol{s} = s + \Bbbk \_$

$\Bbbk_2, z = 3 \wedge \Bbbk \_ \Bbbk_1 + \Bbbk_2 \_ \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j^{ik}_{sa} + 1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{ik}_{sa}+1}^{j^{sa}+j^{ik}_{sa}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(j_i+j_{sa}-s)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}+s-k-j^{ik}_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(\;\;\;\; - 1)!}{(n_s + \;\;\; - \boldsymbol{n} - \;\;\; - j_i)!} \cdot$$

$$\frac{(\;\;\; k - 1)!}{(j_s - k \;\;\;)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa} - \boldsymbol{l}_{ik} - j_{sa})}{(j_{ik} + \boldsymbol{l}_{sa} - j^{sa} - \boldsymbol{l}_{ik})! \cdot (\;\;\; a + j^{ik}_{sa} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i \;\; sa - \boldsymbol{l}_{sa} - s)!}{(\;\; + \boldsymbol{l}_i - j_i - \;\;)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}^{l-1}} \sum_{(j_s = j_{ik} - j^{ik}_{sa} + 1)}^{(\;)}$$

$$\sum_{j_{ik} = j^{ik}_{sa} + 1}^{\boldsymbol{l}_{ik} - k + 1} \sum_{(j^{sa} = \boldsymbol{l}_{sa} + \boldsymbol{n} - D)}^{(\boldsymbol{l}_{sa} - k + 1)} \sum_{j_i = \boldsymbol{l}_{ik} + s - k - j^{ik}_{sa} + 2}^{\boldsymbol{l}_i - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} -)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} -)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (_{sa} + j_{sa}^{ik} - - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} -)! \cdot (j_i + - j^{sa} - s)!} \cdot$$

$$\frac{(D -)}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = _{i}\boldsymbol{l}} \sum_{(j_s = 1)}^{()}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{\left(\boldsymbol{l_{sa}} - _{i}\boldsymbol{l} + 1\right)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - _{i}\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik}}^{l_{ik}+s-\ldots k+1} \sum_{sa = j_i + j_{sa} - s}^{\quad} \sum_{j_i = l_i + n - D}^{\quad}$$

$$\sum_{n_i = n + \Bbbk}^{(\quad j_i+1)} \sum_{\ldots = n + \Bbbk - j_s}^{\quad} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{\quad}$$

$$\sum_{(\ldots n_{ik} + j\ldots a - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{\quad}$$

$$\frac{(n_i + 2 \cdot j_s + \ldots - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(\ldots - n - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \ldots n \ldots \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j \ldots - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$
_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_il - 1} \sum_{(j_s = \cdots - j_{sa}^{ik} + 1)}^{(\ \ )}
$$

$$
\sum_{j_{ik} = j_{sa}^{ik} + 1}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \cdots + \boldsymbol{n} - D)}^{(j_i \cdots)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} \cdots}^{\cdots s - k}
$$

$$
\sum_{n_i = \boldsymbol{n} + \cdots}^{n} \sum_{(n_{is} = n + \Bbbk \cdots + 1)}^{\cdots} \sum_{n_{ik} = n + \Bbbk_2 \cdots - j_{ik} + 1}^{\cdots j_s - j_{ik} - \Bbbk_1}
$$

$$
\sum_{(n_{sa} = \boldsymbol{n} \cdots _3 - j^{sa} + 1)}^{\cdots + j_{ik} - j \cdots _2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}
$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} \cdots _s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{l_s + j_{sa}^{ik} - k} \sum_{(j^{sa} = l_{sa} + n - D)}^{(l_{sa} - k + 1)} \sum_{j_i + s - k + 1}^{l_i - k + 1}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = n + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n + \Bbbk_2 + \Bbbk_3 \ldots + 1}^{n_{is} + j_s - \Bbbk_1}$$

$$\sum_{(n_{sa} = \ldots \Bbbk_3 - j^{sa} + 1)}^{\ldots + j_{ik} - j^{sa} - \Bbbk \ldots} \sum_{\ldots j_i + 1}^{\ldots n_{sa} + j^{sa} - j_i - \Bbbk_3 \ldots}$$

$$\frac{(\ldots - n_{is} - 1)!}{(j \ldots 2)! \cdot (n \ldots n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n \ldots - \Bbbk_1 - 1)!}{(\ldots_{ik} - j_s \ldots 1)! \cdot (n \ldots + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^\ldots \ldots - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(\ldots - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=\,_il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-\,_i\boldsymbol{l}+1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{l_i-\,_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(\ ^{sa}\ -\Bbbk_3)}$$

$$\frac{(\ \ -\Bbbk_1\ \ )!}{(\ \ -2)! \cdot (\ \ -n_{ik}\ \ +1)!} \cdot$$

$$\frac{(n_{ik}-\ -1)!}{(j^{sa}-j_{ik}-\ )! \cdot (n_{ik}+\ -n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-\ -\Bbbk_3-1)!}{(\ -j^{s}\ \ )! \cdot (\ +j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}-j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})! \cdot (j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} \ -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s \right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_i - j_i - j_{sa}^s\right)!} \cdot$$

$$\frac{-k-1)!}{(\boldsymbol{l}_s - j_s - 1)! \cdot (j_s - 2} \cdot$$

$$\frac{(D - 1)!}{(D \quad j_i - \boldsymbol{n} - \boldsymbol{l}_i \quad n - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \quad j^{sa} + j_{sa}^{ik} - \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \quad - s \wedge \quad + s - \quad \leq j_i \leq \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s \quad - j_{sa} > \boldsymbol{l}_{ik} \wedge \quad + j_{sa} - s > \boldsymbol{l}_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l}_i \leq D + \boldsymbol{l}_s + s - \quad 1 \wedge$

$D \geq \quad < n \quad I = \Bbbk \quad 0 \wedge$

$j_{sa}^{} < j_{sa}^i - 1 \wedge \quad^{ik} = j_{sa} \quad \wedge j_{sa}^s \quad j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_s \quad \ldots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, \quad \ldots, \Bbbk_3, j_{sa}\} \wedge$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} \quad s + \Bbbk \wedge$

$\Bbbk_z: \quad 3 \wedge \Bbbk = \quad \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D)}^{(\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}-D-s-1)} \sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_i-k+1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_{ik} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l}_{sa} + j_{sa}^{ik} - \boldsymbol{l}_{ik} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l}_{sa} + j^{sa} - \boldsymbol{l}_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}_i - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l}_{ik}+j_{sa}-k-j_{sa}^{ik}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_{})!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{} - j^{sa})!}$$

$$\frac{(n_{sa} - n_{} - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + {sa} - n_s - j_i + {sa})!} \cdot$$

$$\frac{(n_s - 1)!}{(+ j_i - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa}^{ik} - \boldsymbol{l}_{ik} - j_{sa})!}{(+ \boldsymbol{l}_{sa} - j^{sa} - \boldsymbol{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}_i - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{()}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{\boldsymbol{l}_{ik} - k + 1} \sum_{(j^{sa} = \boldsymbol{l}_{ik} + j_{sa} - k - j_{sa}^{ik} + 2)}^{(\boldsymbol{l}_{sa} - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l}_i - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \ldots)!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s \ldots j_i - \Bbbk_3)!} \cdot$$

$$\frac{(\ldots - 1)!}{(n_s + \ldots - \boldsymbol{n} - \ldots - j_i)!} \cdot$$

$$\frac{(\ldots k - 1)!}{(j_s - k \ldots)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa} - \boldsymbol{l}_{ik} - j_{sa})!}{(j_{ik} + \boldsymbol{l}_{sa} - j^s - \boldsymbol{l}_{ik})! \cdot (\ldots^a + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i + \ldots_a - \boldsymbol{l}_{sa} - s)!}{(\ldots + \boldsymbol{l}_i - j_i - \boldsymbol{l}_s)! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \,_i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\;)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = \boldsymbol{l}_{sa} + \boldsymbol{n} - D)}^{\left(\boldsymbol{l}_{sa} - \,_i\boldsymbol{l} + 1\right)} \sum_{j_i = \boldsymbol{l}_i + \boldsymbol{n} - D}^{\boldsymbol{l}_i - \,_i\boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)} \sum_{}^{n}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} -)} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{l_{ik}}} \sum_{(\boldsymbol{l_{ik}} - j_s - j_{sa}^{ik} + 1)}^{(\;)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_{ik}} + j_{sa} - D - s)}^{(\boldsymbol{l_{ik}} + j_{sa} - j_{sa}^{ik} + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{= \boldsymbol{n} + \Bbbk}^{(n_i - 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\;)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$D > \boldsymbol{n} < n$$

$$l_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \{j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i}\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=\,\cdots}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik} = j_{sa}^{i}}^{j^{sa} + j_{sa}^{ik} - j_{sa} \cdots \boldsymbol{n} + j_{sa}} \sum_{(j^{sa} = \cdots \boldsymbol{n} - D)}^{\cdots - k + 1} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}$$

$$\sum_{n_i = \boldsymbol{n} \cdots}^{n} \sum_{(n_{is} = \boldsymbol{n} + \cdots + 1)}^{(n_i - \cdots + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{\left(l_i + j_{sa} - l_{sa} - s\right)!}{\left(j^{sa} + l_i - j_i - l_{sa}\right)! \cdot \left(j_i + j_{sa} - j^{sa} - s\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{?=n+j_{sa}-D}^{(l_s+j_{sa}-l_k)} \sum_{?=j^{sa}+s-j_{sa}}^{l_i} \sum_{?=j_{ik}-j_{sa}^{ik}+1}^{i^{l-1}} \sum^{(\ \ )}_{(j_s=j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{n_i=n+\Bbbk}^{?} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-?-1)} \sum_{?=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{?-\Bbbk_1}$$

$$\sum_{(n_{sa}=?+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+?-j^{sa}-\Bbbk_2)} \sum_{n_s=n-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(?_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{l_s + j_{sa}^{ik} - k} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + j_{sa} - k + 1)}^{(\boldsymbol{l_{sa}} - k + 1)} \sum_{}^{k+1} {}^{sa} - j_{sa}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} =)}^{(n_i - j_s + 1)} \sum_{= \boldsymbol{n} + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \Bbbk_3 - j^{sa})}^{(n_{ik} + j \quad {}^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \quad - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{sa}}-\ _il+1\right)}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ldots-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(j^{sa}-\Bbbk_3)}$$

$$\frac{(\ldots-\Bbbk_1-1)!}{(\ldots-2)!\cdot(\ldots-n_{ik}-\ldots+1)!}\cdot$$

$$\frac{(n_{ik}-\ldots-1)!}{(j^{sa}-j_{ik}-\ldots)!\cdot(n_{ik}+\ldots-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\ldots-\Bbbk_3-1)!}{(\ldots-j^{s}\ldots-1)!\cdot(\ldots+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-l_i}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_s}+j_{sa}-k)}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$D > \boldsymbol{n} < n$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_a}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{i}-j_{i}-j_{sa}^{s})!}\cdot$$

$$\frac{-k-1)!}{(\boldsymbol{l}_s-j_s-1)!\cdot(j_s-2)}\cdot$$

$$\frac{(D-1)!}{(D-j_i-\boldsymbol{n}-\boldsymbol{l}_i+\boldsymbol{n}-j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \dots - s \wedge \dots + s - \dots \leq j_i \leq \dots \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 = \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s \dots - j_{sa} > \boldsymbol{l}_{ik} \wedge \dots + j_{sa} - s > \boldsymbol{l}_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l}_i \leq D + \boldsymbol{l}_s + s - \dots 1 \wedge$

$D \geq \dots < n \wedge I = \Bbbk \dots 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j \dots k = j_{sa} \dots \wedge j_{sa}^{s} \dots j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}:\{j_{sa} \dots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, \dots, \Bbbk_3, j_{sa}\} \wedge$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} \dots s + \Bbbk \wedge$

$\Bbbk_z : \dots 3 \wedge \Bbbk = \dots_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}^{ik}-D-s-1} \sum_{(j^{sa}=\boldsymbol{l}_{sa}+\boldsymbol{n}-D)}^{(\boldsymbol{l}_{sa}-k+1)} \sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - n_s - 1)!}{(n_s + j_i - n_s + 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l}_{sa} + j_{sa}^{ik} - \boldsymbol{l}_{ik} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l}_{sa} - j^{sa} - \boldsymbol{l}_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}$$

$$\sum_{j_{ik}=\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l}_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l}_{sa}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n-j^{sa})!}$$

$$\frac{(n_{sa}-n-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk)!}\cdot$$

$$\frac{(n_s-1)!}{(n+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(+\boldsymbol{l_{sa}}+j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l}_i+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l}_i-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\,_i\boldsymbol{l}}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-\,_i\boldsymbol{l}+1)}\sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_i-\,_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \ldots)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j^{ik}_{sa} - j_{sa})!}{(\boldsymbol{l_{sa}} + j^{ik}_{sa} - \boldsymbol{l_{ik}})! \cdot (\ldots - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - \ldots)! \cdot (j_i + \ldots - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \ldots - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{\ldots + \boldsymbol{l_s} + s - n} \ \sum_{(j_s = j_{ik} - j^{ik}_{sa} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = \boldsymbol{l_i} + \ldots}^{\ldots - k + 1} \ \sum_{(j^{sa} = j_{ik} + j_{sa} - j^{ik}_{sa})}^{\ldots^{ik}_{sa} - D - s} \ \sum_{j_i = j^{sa} + s - j_{sa}}^{(\ )}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \ \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \ \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{\ }$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\ )} \ \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{\ }$$

$$\frac{(n_i + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j^s_{sa})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - 2 \cdot j^s_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, \cdots, j^{sa}, j_i} = \sum_{k=\cdots}^{i^{\boldsymbol{l}-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\cdots)}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{\cdots + j_{sa}^{ik} - D - s - 1} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(\boldsymbol{l_{sa}} - k + 1)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{i = \boldsymbol{n} + \Bbbk}^{(n_i - j_s + 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{\cdots} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \ )!}$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!}$$

$$\frac{(\quad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} +$$

$$\sum \sum_{(\quad j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=l \ +j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa} \ +j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n \ +\Bbbk}^{\boldsymbol{n}} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j \ )} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{}^{} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+)}^{} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{} \sum_{(=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{}$$

$$\sum_{\Bbbk_3-j^{sa}+1}^{n_{ik}+j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=l_i+n+j_{sa}^{ik}-D-s}^{l_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}\quad-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2 \quad =n_{sa}+j^{sa}-j_i}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} \quad\quad \Bbbk_2 - \quad - 2 \cdot j_{sa}^s)!}{(n_i \quad n - \Bbbk_1 \quad \Bbbk_2 - \Bbbk_3} \cdot$$

$$\frac{1}{(n + 2 \quad + j_{sa}^{ik} - \quad - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l \quad j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \ge n < n \land l_s \le \quad - n + 1 \land$

$1 \quad j_s \le j_{ik} \quad ^{ik} + 1 \land \quad + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \land$

$j_{ik} \quad j_{sa} - j_{sa}^{ik} \le j \quad \le j_i + j_s \quad \land j^{sa} + s - j_{sa} \le j_i \le n \land$

$l_{ik} - j_{sa} \quad 1 = l_s \land l_{sa} \quad j_{sa}^{ik} - j_{sa} > l_{ik} \land l_i + j_{sa} - s > l_{sa} \land$

$D + s - n < \quad < D \quad l_s + s - n - 1 \land$

$D \quad n \quad \land I = \Bbbk > 0 \land$

$j_{sa} < j_{sa}^i \quad \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^s < j_{sa}^{ik} - 1 \land$

$s : \{j_{sa}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \land$

$s \ge 6 \land s = s + \Bbbk \land$

$\Bbbk_z : z = 3 \land \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$D > \boldsymbol{n} < n$

$$_{fz}S_{j_s\,,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_i}+\boldsymbol{n}-D-s)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j)}^{(n_{ik}+j_{ik}-j^{sa})} \sum_{n_s=\boldsymbol{n}-j_i+}^{+j^{s}+j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_{ik}}-k-j_{sa}^{ik}+2)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)}\sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i-1)!}{(j_s-2)!\,(n_i-n_{is}+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk-1)!}{(j_{ik}-j_s-1)!\,(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{\left(l_{sa}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\,_il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(l_{sa}-\,_il+1\right)}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\Bbbk_1+1)} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-\ldots)!}{(n_s+j_i-\boldsymbol{n}-\ldots-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j^{sa}_{sa}-\boldsymbol{l_{ik}}-j_{sa})!}{(\boldsymbol{l_{sa}}+j^{sa}_{sa}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}-j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i}+j-\boldsymbol{l_{sa}}-s)!}{({}^{sa}+\boldsymbol{l_i}+\ldots)! \cdot (j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_{ik}}-k-j^{ik}_{sa}+2)}$$

$$\sum_{j_{ik}=j_s+j^{ik}_{sa}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j^{ik}_{sa}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j^s_{sa})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n}}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 = \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j^{ik} - 1 \wedge$

$\boldsymbol{s} : \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \quad \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_i}+\boldsymbol{n}-D-s)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\boldsymbol{l_i}-k+1} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \quad)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\quad k - 1)}{(\boldsymbol{l_s} - \quad - k + \quad - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} + \quad)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} \quad) \cdot (j^{sa} + j_s \quad - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + \quad - \boldsymbol{l_{sa}} - \quad)}{(j^{sa} + \boldsymbol{l_i} \quad - \boldsymbol{l_{sa}}) \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D \quad \boldsymbol{l_i})!}{(D + \quad - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{\boldsymbol{l}-1}} \sum_{(j_s = \boldsymbol{l_i} + \boldsymbol{n} - D - s + 1)}^{(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\boldsymbol{l_{sa}} - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s \quad \ )!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - \quad_k - j_{sa}\right)!}$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} \quad)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})\ (j_i + j_{sa} \quad - s)!} \cdot$$

$$\frac{(\quad \boldsymbol{l_i})!}{\quad - \boldsymbol{n} - \quad \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ \ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{sa}}-\ _i\boldsymbol{l}+1\right)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

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$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} - j_{sa}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}\right)! \cdot \left(j_i + j_{sa} - j^{sa} - s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-l_i} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-s+1)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}} \sum_{sa=j_{ik}+j_{sa}-} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{=\boldsymbol{n}+\Bbbk-j_s}^{(j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{=n_{ik}+j_{ik}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + \ldots - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{\left(\ldots - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3\right)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D > \ldots \boldsymbol{n} < n \wedge \boldsymbol{l_i} \le D + s - \boldsymbol{n} \wedge$

$1 \le j_s \le j_{\ldots} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} - \ldots - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \le j_i \le \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$$s: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge s = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = 2)}^{\left(j_{ik} - j_{sa}^{ik} + 1 \right)}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}}^{(\ )} \sum \sum_{=s+1}^{l_s + s - k}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum^{(n_i - j_s + 1)} \sum_{n_{ik} = \cdots + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik}}$$

$$\sum^{\left(n_{ik} - j^{sa} - \Bbbk_2 \right)} \sum_{n_s = n - j_i + 1}^{-j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - \ )! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(\cdots n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} \cdots j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(\cdots - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1 \right)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1 \right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$D > \boldsymbol{n} < n$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_s}+s-k}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1} \sum^{n_{is}-j_{ik}+1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-\ \ )}^{(n_{ik}+j_{ik}-j^{sa}\ \ )} \sum_{n_s=\boldsymbol{n}-j_i+}^{\ +j^{\ }\ j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (\ \ \ \ -\ \ \ -j_s+1)!} \cdot$$

$$\frac{-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-\ n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\ sa-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=s}^{l_i-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \ \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_2-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(\ldots)!}{(n_s+j_i-\boldsymbol{n}-\ldots-j_i)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-\ldots-j_{sa}^{ik}+1\right)!}{\left(\boldsymbol{l_{ik}}-\ldots-\boldsymbol{l_s}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D-\ldots_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}\ -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \ \sum_{\left(j_s=j_{ik}-j_{sa}^{ik}+1\right)}^{(\ \ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \ \sum_{\left(j^{sa}=j_i+j_{sa}-s\right)}^{(\ \ )} \ \sum_{j_i=s+1}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \ \sum_{\left(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1\right)}^{(n_i-j_s+1)} \ \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{\left(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2\right)}^{(\ \ )} \ \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s}\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^{s}\right)!}\cdot$$

$D > \boldsymbol{n} < n$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\ _il}^{(\ )} \sum_{(j_s=1}$$

$$\sum_{j_{ik}=j_{sa}} \sum_{sa=j_s} \sum_{j_i=s}$$

$$\sum_{\mathbb{k}\,(n_{ik}} \sum^{(\ )}_{j_{ik}-\mathbb{k}_1+1)}$$

$$\sum_{n_{sa}=n_{ik}} \sum_{n_{sa}+j^{sa}-j_i-\mathbb{k}_3)}^{j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \mathbb{k}_2 - \mathbb{k}_3)! \cdot (n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge l_i \leq \ + s - \boldsymbol{n} \wedge$

$1 \ j_s \leq j_{ik} \ ^{ik} + 1 \ + j_{ik}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} \ j_{sa} - j_{sa}^{ik} \leq j \ \leq j_i + j \ \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_s \ 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} \ j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \ = \mathbb{k} \ \wedge$

$j_s \ j_{sa} \ 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}^s, \cdots \ j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \cdots, \mathbb{k}_3, j_{sa}^i\} \wedge$

$s \geq 0 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z: z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i-1)!}{(j_s-2)!\cdot(n_i-n_{is}-+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1+1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-+1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3+1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(l_{ik}-l_s-j_{sa}^{ik}+1)!}{(j_s+l_{ik}-j_{ik}-l_s)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=l_s+j_{sa}-k+1)}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$D > \boldsymbol{n} < n$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(j_i + j_s - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{ik} - k - j_{sa}^{ik} + 1)!}{(j_s + k - j_{ik} - 1)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k={}_il}^{(\ )} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa})}^{(l_{sa}-{}_il+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} + \ldots)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j^{ik}_{sa} - 1)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot (\ldots - j^{ik}_{sa})!} \cdot$$

$$\frac{(\ldots)!}{(D + \ldots - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\ldots - j_i)!} -$$

$$\sum \sum_{\ldots}^{\binom{\ }{\ }}_{(\ldots j^{ik}_{sa}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j^{ik}_{sa}-j_s} \sum_{(\ldots j^{sa}=j_{sa}+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{(\ldots-k)}$$

$$\sum_{\ldots=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{(n_i-\ldots 1)}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{\binom{\ }{\ }} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + \ldots + j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j^s_{sa})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - 2 \cdot j^s_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{\binom{\ }{\ }}$$

616     $D > \boldsymbol{n} < n$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1)}^{n} \sum_{}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+\ -j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \ 2\cdot j_s\ \right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j\ - j_{ik} - j_i\ \ j_{sa}^s\right)!} \cdot$$

$$\frac{\ - \boldsymbol{l_i})!}{\ \ -\boldsymbol{n}-\ )! \cdot (\boldsymbol{n}-s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_s\ \ j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa}\ \ - j_{sa} \leq j_i \leq\ \ \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j^{i}\ \ j_{sa} =\ \wedge \boldsymbol{l_i} + \ \ - s =\ \ _{sa} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j^{ik} = j_{sa} - 1 \wedge j_s\ < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \left\{ j_{sa}^{s}\ \ \cdot, \Bbbk\ \ j_{sa}^{ik}, \Bbbk_2,\ \cdots, \Bbbk_3, j_{sa}^{i} \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \ \ \wedge$

$\Bbbk_z: z\ \ 3 \wedge \Bbbk = \Bbbk_1 + \ _2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s\ ,j_{ik},j^{sa},j_i} = \sum_{k=1}^{i\boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - j_s - j_{sa}^{ik} + 1)!}{(j_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_s}+j_{sa}^{ik}-k+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i -)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\quad k - 1)}{(\boldsymbol{l_s} - \quad k +) \quad - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{s} + 1)!}{(j_s + \boldsymbol{l_{ik}} -)! \cdot (j_{ik} - - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_{ik}})}{(D + j_i \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {}_il} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{\boldsymbol{l_{ik}} - {}_il + 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\quad)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \mathbb{k}_2 + \mathbb{k}_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \mathbb{k}_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \mathbb{k}_3)}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(l_{ik} - j_{ik} - l_s + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{{}_i l - 1} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{l_s + j_{sa}^{ik} - k} \sum_{(j^{sa} = j_{isa} - j_{sa}^{ik})}^{(\ )} \sum j_{sa}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = n - \Bbbk - j_s)}^{(n_i - j_s + 1)} \sum_{n - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j^{sa} - \Bbbk_2)}^{(\ )} \sum_{n - n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{\left(n + 2 \cdot j_s + j_{sa} - j_{ik} - j_i - \Bbbk - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{\left(n_i - \Bbbk - \Bbbk_2 - \Bbbk_3\right)!} \cdot$$

$$\frac{1}{\left(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k = {}_i l}^{(\ )} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{(\ )} \sum_{(j^{sa} = j_{sa})}^{(\ )} \sum_{j_i = s}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2\cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \quad)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \quad \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 \quad \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} -)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa} - 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s}) (j_{ik} - j_s + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i})!}{\boldsymbol{n} - \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k= \;_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}}^{l_{ik}- \;_i\boldsymbol{l}+1} \sum_{(=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_s+j_{sa}-j_{sa}^{})}^{(\ )} \sum_{}^{}{}_{sa}-j_{sa}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=+\Bbbk\ )}^{(n_i-j_s+1)} \sum_{}^{}{}_{s}-j_{ik}-\Bbbk_1$$

$$\sum_{(n_{sa}=n_{ik}++j^{sa}-\Bbbk_2)}^{(\ )} \sum_{}^{}{}_{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{} - j_{ik} - j_i - - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \Bbbk_1 _2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\quad)}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{\left(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3\right)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \quad)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n}$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \quad \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^i \quad 1 \wedge$

$\boldsymbol{s} : \left\{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk\right.$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{il-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i -}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(k - 1)}{(\boldsymbol{l_s} - - k + 1) \cdot (- 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_s + 1)!}{(j_s + \boldsymbol{l_{ik}} -)! \cdot (j_{ik} - - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D -)}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l} - 1} \sum_{(j_s = 2)}^{(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{j_i sa + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{()} \sum_{j_i = \boldsymbol{l_s} + s - k + 1}^{\boldsymbol{l_i} - k + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \mathbb{k}}^{n} \sum_{(n_{is} = \boldsymbol{n} + \mathbb{k} - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \mathbb{k}_2 + \mathbb{k}_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \mathbb{k}_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \mathbb{k}_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} \right)}$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k = {}_i\boldsymbol{l}\,(j_s}$$

$$\sum_{j_{ik}=} \sum_{j_{sa}^{ik}-j_{sa}} \sum_{(=j_i+j_{sa}-s)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-{}_i\boldsymbol{l}+1}$$

$$\sum_{n_i=}^{n} \text{k} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{-j_{ik}-\Bbbk_1+1}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$D > \boldsymbol{n} < n$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=l_i+\boldsymbol{n}}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\quad ,\quad=n_{sa}+j^{sa}-j_i)}^{(\ )}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-\quad -\Bbbk_2-\quad -2\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\quad)} \cdot$$

$$\frac{1}{(\boldsymbol{n}+2\quad+j_{sa}^{ik}-\quad -j_i-2\cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l\quad j_s-k+1)!\cdot(j_s-2)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge l_s \leq \quad -\boldsymbol{n}+1 \wedge$

$1 \leq j_s \leq j_{ik} \quad^{ik}+1 \wedge \quad +j_{ik}^{ik}-1 \leq j_{ik} \leq j^{sa}+j_{sa}^{ik}-j_{sa} \wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik} \leq \quad \leq j_i+\quad \wedge j^{sa}+s-j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}}-j_{s}\quad+1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}}\quad j_{sa}^{ik}-j_{sa} = \boldsymbol{l_{ik}} \wedge l_i+j_{sa}-s = \boldsymbol{l_{sa}} \wedge$

$D+s-\boldsymbol{n} \leq \quad \leq D+\quad+s-\boldsymbol{n}-1 \wedge$

$D\quad\boldsymbol{n}\quad \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - \quad \wedge j_{sa}^{ik} = j_{sa}-1 \wedge j_{sa}^s < j_{sa}^{ik}-1 \wedge$

$\boldsymbol{s}: (j_{sa}\quad\cdots,\Bbbk_1,j_{sa}^{ik},\Bbbk_2,j_{sa},\cdots,\Bbbk_3,j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s+\Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1+\Bbbk_2+\Bbbk_3 \Rightarrow$

$$\,_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_il-1}\ \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\ \sum_{(j^{sa}=l_i+n+j_{sa}-D-s)}^{(l_s+j_{sa}-k)}\ \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=n+\Bbbk}^{n}\ \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\ \sum_{n_{ik}=n+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-\ \ \ 1)}^{(n_{ik}+j_{ik}-j^{sa}\ \ \ }\ \sum_{n_s=n-j_i+}^{\ \ +j^s\ \ j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(\ \ \ \ \ \ -j_s+1)!}\cdot$$

$$\frac{\ \ \ -n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{\left(l_{ik}-l_s-j_{sa}^{ik}+1\right)!}{(j_s+l_{ik}-j_{ik}-l_s)!\cdot\left(j_{ik}-j_s-j_{sa}^{ik}+1\right)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}+$$

$$\sum_{k=1}^{_il-1}\ \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\ \sum_{(j^{sa}=l_s+j_{sa}-k+1)}^{(l_i+j_{sa}-k-s+1)}\ \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{(\boldsymbol{l}_i-\boldsymbol{l}_s-j_s-k+1)!\cdot(j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l}_{ik}-\boldsymbol{l}_s-j_{sa}^{ik}+1)!}{(j_s-\boldsymbol{l}_{ik}-j_{ik}-\boldsymbol{l}_s)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=\;_i\boldsymbol{l}}\sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l}_i+j_{sa}-\;_i\boldsymbol{l}-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i -)} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\frac{(\boldsymbol{l_{ik}} - j^{ik} +)}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot (- j_{sa}^{ik})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{ - \boldsymbol{l_{i}} (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=}^{\boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik} = + j_{sa}^{ik} - j_{}}^{(\boldsymbol{l_s} - j_{sa} - k)} \sum_{ - \boldsymbol{n} + j_{sa} - D - s)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{ = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{()} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$D > \boldsymbol{n} < n$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$\int_z S_{j_s, j_{ik}, \ldots, j_i} = \sum_{k=1}^{\boldsymbol{l} \ldots (l_{ik} - j_{sa}^{ik} + 1)} \sum_{(j_s = 2)}$$

$$\sum_{= l_i + \boldsymbol{n} \ldots - D - s}^{l_s + j_{sa}^{ik} - k} \sum_{(j^{sa} = \ldots + j_{sa} - j_{sa}^{ik})}^{(\ )} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_{i \ldots} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1} \sum_{i_s=2}^{(l_s - k + 1)}$$

$$\sum_{j_{ik} = l_s + j_{sa}^{ik} - k}^{l_i + j_{sa}^{ik} - k - s + 1} \sum_{j_{ik} + j_{sa} - j_s} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = n + \Bbbk}^{(n_i - 1)} \sum_{(n_{is} + \Bbbk - j_s + 1)} \sum_{i = n + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{- \Bbbk_1}$$

$$\sum_{(n_{sa} = \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(_k - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {_i}l}^{(\ )} \sum_{(j_s = 1)}$$

$$\sum_{j_{ik} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa}^{ik} - D - s}^{\boldsymbol{l_i} + j_{sa}^{ik} - {_i}l - s + 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\ )} \sum_{j_i}^{sa + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \cdots}^{n} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - \cdots}^{(n_i - j_{ik} - \cdots + 1)}$$

$$\sum_{n_{sa} = \cdots}^{\cdots} \sum_{}^{(\cdots + 1)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - \cdots - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - \cdots - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot (j_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = 1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa}^{ik} - D - s}^{\boldsymbol{l_s} + j_{sa}^{ik} - k} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\ )} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_s\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-j_{sa}^{s}\right)!}\cdot$$

$$\frac{-k-1)!}{(\boldsymbol{l}_s-j_s-\quad 1)!\cdot(j_s-2}\cdot$$

$$\frac{(D-\quad)!}{(D-j_i-\boldsymbol{n}-\boldsymbol{l}_{ik}-\boldsymbol{n}-j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \quad j^{sa} + j_{sa}^{ik} - j \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \quad - s \wedge \quad + s - j \quad \leq j_i \leq \quad \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 > \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s \quad - j_{sa} = \boldsymbol{l}_{ik} \wedge \quad + j_{sa} - s = \boldsymbol{l}_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l}_i \leq D + \boldsymbol{l}_s + s - \quad 1 \wedge$

$D \geq \quad < n \quad I = \Bbbk \quad 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j^{ik} = j_{sa} \quad \wedge j_{sa}^{s} \quad j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}, \ldots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, \quad \ldots, \Bbbk_3, j_{sa}\} \wedge$

$s \geq 6 \wedge s \quad s + \Bbbk \wedge$

$\Bbbk_z: \quad 3 \wedge \Bbbk = \quad \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s,\,j_{ik},\,j^{sa},j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l}_i+\boldsymbol{n}-D-s)}$$

$$\sum_{j_{ik}=\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l}_i+j_{sa}^{ik}-k-s+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$D > \boldsymbol{n} < n$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{\,} - j_s + 1)} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_{\,} - j_{\,} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - _{\,} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + _{\,} - n_{sa} - j^{\,})!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{\,} - 1)! \cdot (n_{\,} + j^{sa} - n_{\,} - \Bbbk_3)!} \cdot$$

$$\frac{(n_{\,} - n_s - 1)!}{(n_{\,} + j_i - n_{\,} + 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_{\,}} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s - _{\boldsymbol{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l_i}+j_{sa}^{ik}-k-s+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \underline{\hspace{1cm}})} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s \underline{\hspace{0.5cm}} j_i - \Bbbk_3)!} \cdot$$

$$\frac{\underline{\hspace{1cm}} - 1)!}{(n_s + \underline{\hspace{0.5cm}} - \boldsymbol{n} - \underline{\hspace{0.5cm}} - j_i)!} \cdot$$

$$\frac{(\underline{\hspace{0.5cm}} k - 1)!}{\underline{\hspace{0.5cm}} j_s - k \underline{\hspace{0.5cm}})! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} \underline{\hspace{0.5cm}} - j_{sa}^{ik} \underline{\hspace{0.5cm}}}{(j_s + \boldsymbol{l_{ik}} \underline{\hspace{0.5cm}} - \boldsymbol{l_s}) \underline{\hspace{0.5cm}} (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D \underline{\hspace{0.5cm}} \boldsymbol{l_i})!}{(D + \underline{\hspace{0.5cm}} - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {}_i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa}^{ik} - D - s}^{\boldsymbol{l_i} + j_{sa}^{ik} \underline{\hspace{0.3cm}} \boldsymbol{l} - s + 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\ )} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{(j_s = \boldsymbol{l_i} + \boldsymbol{n} \ldots -s+1)}^{(l_i - k + 1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} \ldots} \sum_{\ldots sa = j_{ik} + j_{sa} - \ldots} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk \ldots} \sum_{\ldots = \boldsymbol{n} + \Bbbk - j_s \ldots} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{(j_s + 1)}$$

$$\sum_{(\ldots = n_{ik} + j_{ik} \ldots - \Bbbk_2)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + \ldots - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(\ldots - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D > \ldots \boldsymbol{n} \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j \ldots + j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} \ldots sa - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l}-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}\right)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{\left(j^{sa}=j_i+j_{sa}\right)}^{\left(\ \right)} \sum_{j_i=\boldsymbol{l}_{sa}+\boldsymbol{n}+s-D}^{\boldsymbol{l}_s+s}$$

$$\sum_{n_i=\boldsymbol{n}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\ +1)}^{(\ +1)} \sum_{n_{ik}=\boldsymbol{n}}^{+j_s-j_{ik}-\Bbbk_1} \sum_{\ \ \ -j_{ik}+1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}\ \ _3-j^{sa}+1)}^{\ \ _{ik}+j_{ik}-\ \ \Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(\ _s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} +\ _s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_s}+s-k+}^{\boldsymbol{l_{sa}}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1} {}_{-j_{ik}+1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-\ \ 1)}^{(n_{ik}+j_{ik}-j^{sa}} \sum_{n_s=\boldsymbol{n}-j_i+}^{+j^{s}\ \ j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s-2)! \cdot (\ \ -n_{\ \ }+j_s+1)!} \cdot$$

$$\frac{(\ \ -n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s\ \ _{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}\ \ n_{sa}-1)!}{(j^{sa}\ \ _{ik}-1)! \cdot (\ n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\ \ a-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k={}_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_{sa}}+\boldsymbol{n}+s-D-j_{sa}}^{\boldsymbol{l_{sa}}+s-{}_i\boldsymbol{l}-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(\;\;\;\;\;\;)}{(n_s+j_i-\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(l_{ik}-\;\;-j_{sa}^{ik}+1)!}{(l_{ik}-\;\;-l_s+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(D-l_i)!}{(D-\;\;-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;\;\;)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\;\;\;)} \sum_{j_i=l_{sa}+\boldsymbol{n}+s-D-j_{sa}}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;\;\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^s)!}\cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} \, 1 \wedge$

$\boldsymbol{s} : \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\},$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_i \boldsymbol{l} - 1} \sum_{(j_s=2)}^{(j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(\boldsymbol{l_s} + j_{sa} - k)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdots)} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1) \cdots (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - \cdots 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} \cdots (j_{ik} - j_s \cdots + 1)!} \cdot$$

$$\frac{(\cdots \boldsymbol{l_i})!}{\cdots \boldsymbol{n} - \cdots \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1} \sum_{(j_s = 2)}^{(\cdots - k + 1)}$$

$$\sum_{j_{\cdots} = \cdots sa + j_{sa}^{\cdots}} \sum_{\cdots \boldsymbol{l_s} + j_{sa} - k + 1)}^{(\cdots - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{\cdots \boldsymbol{n} + \Bbbk} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=}^{} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}}^{} \sum_{sa=\boldsymbol{l_{sa}}+\boldsymbol{n}-}^{(\boldsymbol{l_s},\;\;,l+1)} \sum_{=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{} \sum_{=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{(\;\;\;+1)}$$

$$\sum_{n_{ik}+\;\;j^{sa}-\Bbbk_2}^{} \sum_{(n_{sa}=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(\;\;_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}-\quad a-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \quad \Bbbk_2 - \quad\cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \quad - \Bbbk_3)!} \cdot$$

$$\frac{}{(\boldsymbol{n} + \quad {}^{ik} - j_{ik} \quad i - 2\cdot j_{sa}^s)!}$$

$$\frac{(\boldsymbol{l_s} - k \quad}{(\boldsymbol{l_s} - j_s \quad k+1)!\cdot (j_s-2)!} \cdot$$

$$\frac{(\quad - \boldsymbol{l_i})!}{(D \quad j_i - \boldsymbol{n} - \boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + \quad \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s \quad {}^{ik} - 1 \leq j_{ik} \quad {}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq \quad {}^{sa} \leq j_i + j_{sa} - \quad j^{sa} + \quad \quad j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + \quad \geq \boldsymbol{l_s} \wedge \boldsymbol{l_s} \quad + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{i}} \quad \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_s} \quad \leq D + \boldsymbol{l_s} \quad j_{sa} \quad \boldsymbol{n} - 1 \wedge$

$D \geq \quad < n \wedge I = \Bbbk > \quad \wedge$

$j_{sa} < j_{sa}^i - \quad \wedge j_{sa}^{ik} = j \quad - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{ \quad \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = \quad + \Bbbk \wedge$

$\quad \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{i\ }}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_{s\ }-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i\ \ -1)}{(j_s-2)\ \ (n_i-n_{is}\ \ -1)!} \cdot$$

$$\frac{(n_{i\ }-n_{ik}-\Bbbk_{1\ }\ 1)!}{(j_{ik}-j_s-1)\ \ \ (n_{i\ }-n_{i\ }-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}\ \ n_{sa}-1)\ }{(j^{sa}-j_{ik}\ \ 1)! \cdot (n_{\ }+j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}\ \ _s-\Bbbk_3\ \ 1)!}{(j_i\ \ _{sa}-1)! \cdot (n_{\ }+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_s}+j_{sa}^{ik}-k+1}^{\boldsymbol{l_{sa}}+j_{sa}^{ik}-k-j_{sa}+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-j_s-j_{sa}^{ik}+1)!}{(j_s+l-j_{ik}-1)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\boldsymbol{_il}}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}}^{\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{_il}-j_{sa}+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} + \cdots)!} \cdot$$

$$\frac{(\boldsymbol{l}_{ik} - \boldsymbol{l}_s - j_{sa}^{ik} - 1)!}{(\boldsymbol{l}_{ik} - j_{ik} - \boldsymbol{l}_s + 1)! \cdot (\cdots - j_{sa}^{ik})!} \cdot$$

$$\frac{(\cdots)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\cdots j_i)!} -$$

$$\sum_{k=\cdots}^{D+\boldsymbol{l}_s+s-\cdots} \sum_{\cdots (\cdots - j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l}_{sa}}^{\boldsymbol{l}_s + j_{sa}^{ik} - k} \sum_{j_{sa}^{ik} - D - j_{sa} (j^{sa} \cdots k + j_{sa} - j_{sa}^{ik})}^{(\ )} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{\cdots = \boldsymbol{n} + \Bbbk (n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - \cdots 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + \cdots j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \land l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \land l_i + j_{sa} - s = l_{sa} \land$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \land$$

$$D \geq n < n \land I = \mathbb{k} > 0 \land$$

$$j_{sa} < j_{sa}^i - 1 \land j_{sa}^{ik} = j_{sa} - 1 \land j_{sa}^s < j_{sa}^{ik} - 1 \land$$

$$s: \{j_{sa}^s, \cdots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \cdots, \mathbb{k}_3, j_{sa}^i\} \land$$

$$s \geq 6 \land s = s + \mathbb{k} \land$$

$$\mathbb{k}_z: z = 3 \land \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k} \sum_{(j_s=2)}^{i^{l-1}(l_{sa} \cdots j_{sa})}$$

$$\sum_{j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j\cdots}^{l_{sa}+\cdots-k-j_{sa}+1} \sum_{(j^{sa}=j_{ik}+\cdots-j_{sa}^{ik})}^{(\cdots)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=n}^{n} \sum_{(n_{is}=n+\cdots+1)}^{(n_i-\cdots+1)} \sum_{n_{ik}=n+\mathbb{k}_2+\mathbb{k}_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\mathbb{k}_1}$$

$$\sum_{(n_{sa}=n+\mathbb{k}_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{n_s=n-j_i+1}^{n_{sa}+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s}\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i \boldsymbol{l} - 1} \sum_{(j_s = \boldsymbol{l_{sa}} + \boldsymbol{n} - D - j_{sa} + 1)}^{(\boldsymbol{l_s} - k - 1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1}^{\boldsymbol{l_{sa}} + j_{sa}^{ik} - k - j_{sa} + 1} \sum^{(\ )}_{(j^{sa} = \ )}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} =)}^{(n_i - j_s + 1)} \sum^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \ + \Bbbk_3 - j^{sa})}^{(n_{ik} + j_{} \ ^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + \ - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \ - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s}\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}}^{l_{sa}+j_{sa}^{ik}-\,_il-j_{sa}+1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )}\sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\bm{n}+\Bbbk}^{n}\sum_{(n_{ik}=\bm{n}+\Bbbk_2+}^{(n_i-j_{ik}-\Bbbk_1+1)}{}_{-j_{ik}+1)}$$

$$\sum_{n_{sa}=\bm{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\bm{n}-j_i+1)}^{j^{sa}-\Bbbk_3}$$

$$\frac{(\ -\Bbbk_1\ -1)!}{(\ -2)!\cdot (\ -n_{ik}\ +1)!}\cdot$$

$$\frac{(n_{ik}-\ -1)!}{(j^{sa}-j_{ik}-\ )!\cdot(n_{ik}+\ -n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\ -\Bbbk_3-1)!}{(\ -j^{\ }\ +1)!\cdot(\ +j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\bm{n}-1)!\cdot(\bm{n}-j_i)!}\cdot$$

$$\frac{(\bm{l_{ik}}-\bm{l_s}-j_{sa}^{ik}+1)!}{(\bm{l_{ik}}-j_{ik}-\bm{l_s}+1)!\cdot\left(j_{ik}-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{(D-\bm{l_i})!}{(D+j_i-\bm{n}-\bm{l_i})!\cdot(\bm{n}-j_i)!}\ -$$

$$\sum_{k=1}^{D+\bm{l_s}+s-\bm{n}-\bm{l_i}}\sum_{(j_s=\bm{l_{sa}}+\bm{n}-D-j_{sa}+1)}^{(\bm{l_s}-k-1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}\sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{(\ )}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\bm{n}+\Bbbk}^{n}\sum_{(n_{is}=\bm{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s}\right)!}$$

$$\frac{(\boldsymbol{l_s} - k -)!}{(\boldsymbol{l_s} - j_s - k + 1)! \quad (\quad_s - 2)!}$$

$$\frac{(D - \quad)}{(D + j_i \quad \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} \quad j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j \quad + j_{sa}^{ik} - \quad \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \quad \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \quad \boldsymbol{l_i} + j_{sa} - s = \quad_a \wedge$

$D + j_{sa}^{ik} - \boldsymbol{n} < \boldsymbol{l_{ik}} \leq D + \boldsymbol{l_s} \quad_{sa} \quad 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_\quad < j_{sa}^{ik} - 1$

$\boldsymbol{s}:\{j_{sa}^s \quad \cdot, \Bbbk \quad j_{sa}^{ik}, \Bbbk_2 \quad_a, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} = s \quad \Bbbk \wedge$

$\Bbbk_z: \quad 3 \wedge \Bbbk = \Bbbk_1 \quad \Bbbk_2 + \Bbbk_3$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)} \sum_{j_i=\boldsymbol{l_{ik}}+s+\boldsymbol{n}-D-j_{sa}^{ik}}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n-j^{sa})!}$$

$$\frac{(n_{sa}-n-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(j_i+\dots)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\dots-j_{sa}^{ik}+1)!}{(j_s+\dots-j_{ik}-\dots)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1}\sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\quad)}\sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_{ik}}+s-k-j_{sa}^{ik}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \ldots)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\ldots k - 1)!}{(\boldsymbol{l_s} - \ldots - k + \ldots - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{\ldots} + 1)!}{(j_s + \boldsymbol{l_{ik}} - \ldots)! \cdot (j_{ik} - \ldots - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D - \boldsymbol{l_{ik}} \ldots)}{(D + j_i \ldots \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \boldsymbol{{}_i l}} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} \ldots k - j_{sa}}^{(\ )} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{\boldsymbol{l_{ik}} + s - \boldsymbol{{}_i l} - j_{sa}^{ik} + 1} \sum_{j_i = \boldsymbol{l_{ik}} + s + \boldsymbol{n} - D - j_{sa}^{ik}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(l_{ik} - j_{ik} - l_s + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{(\ )} \sum_{j_i = l_{ik}}^{l_s - k}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{ik} =)}^{(n_i - j_s + 1)} \sum_{n_{ik} = }^{} $$

$$\sum_{(n_{sa} = n_{ik} +)}^{} \sum_{}^{(\ )} \sum_{}^{}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s}\right)!}{\left(n_i \quad - \Bbbk_1 \quad \Bbbk_2 - \Bbbk_3\right)!} \cdot$$

$$\frac{1}{\left(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$\geq n < \quad \wedge l_s \leq D - \quad + 1 \wedge$

$1 \leq j \leq j_{ik} - \quad \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - \quad ^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$

$\quad - j_{sa}^{ik} \quad > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$

$D \geq n < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$

$s : \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i} \right\} \wedge$

654                $D > \boldsymbol{n} < n$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i l-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l}_{ik}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik})}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=\qquad a+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum{}^{+j_s-j\qquad \Bbbk_1}_{\qquad=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j\quad}$$

$$\sum_{(n_{sa}=\boldsymbol{n}\qquad-j^{sa}+1)}^{\qquad-j^{sa}-\Bbbk_2,\quad a+j^{sa}-j_i-\Bbbk_3}\sum{}_{\qquad j_i+1}$$

$$\frac{(n\qquad n_{is}-1)!}{(j_s\quad 2)!\cdot(n_i\quad n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n\quad-\Bbbk_1-1)!}{-j_s\quad)!\cdot(\quad_s+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^s\quad-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(\quad-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_i l-1}\sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \ \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{ik}}+j_{sa}-k-j_{sa}^{ik}+1)} \ \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \ \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_i}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \ \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-\ }$$

$$\frac{(n_i\ -\ 1)}{(j_s-2)\ (n_i-n_{is}-\ \ -1)!}\ \cdot$$

$$\frac{(n_{\ }-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)\ (n_{\ }-n_{\ }+j_{ik}-\Bbbk_1)!}\ \cdot$$

$$\frac{(n_{ik}\ -n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{\ }+j_{ik}-n_{sa}-j^{sa})!}\ \cdot$$

$$\frac{(n_{sa}\ -n_s-\Bbbk_3-1)!}{(j_i\ -j^{sa}-1)!\cdot(n_{\ }+j^{sa}-n_s-j_i-\Bbbk_3)!}\ \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\ \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\ \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\ \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}\ +$$

$$\sum_{k=\ _i\boldsymbol{l}} \ \sum_{(j_s=1)}^{(\ \ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \ \sum_{(j^{sa}=\boldsymbol{l_{ik}}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik})}^{(\boldsymbol{l_{ik}}+j_{sa}-\ _i\boldsymbol{l}-j_{sa}^{ik}+1)} \ \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \ \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - \ldots)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_{ik} - l_s - j^{ik} + 1)!}{(l_{ik} - l_s - 1)! \cdot (\ldots - j_{sa}^{ik})!} \cdot$$

$$\frac{(D - l_i)!}{(\ldots + j_i - \ldots - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+\ldots-j_{sa}}^{} \sum_{(j^{sa}=l_{ik}+\boldsymbol{n}+j_{sa}-D-j_{sa}^{ik})}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}^{}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$

$D \geq n < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$

$s: \{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i} \} \wedge$

$s \geq 6 \wedge s = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s, j_{i}, a, j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s = 2)}^{(j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{l_{ik} + n - D}^{+ j_{sa}^{ik} - k} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\ )} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{is} = n + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s \quad)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s \quad {}_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\quad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \quad (\quad j_i)!} +$$

$$\sum_{(j_s=2)}^{{}_i\boldsymbol{l}-1} \sum^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j \quad +j_{sa}^{ik}-k+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa} \quad k+j_{sa}-j_{sa}^{ik})} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{\boldsymbol{n}+\Bbbk \ (n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=\,_il}^{} \sum_{(j_s=\,)}^{(\ )}$$

$$\sum_{j_{ik}=l_{ik}+n-D}^{l_{ik}-\,_il+1} \sum_{(j^{sa}=j_{\,}}^{(\ )} \cdots -j_{sa}$$

$$\cdots (n_i - j_{ik} - \Bbbk_1 + 1)$$

$$\sum_{=n+\Bbbk}^{n} \sum_{=n+\Bbbk_{\,}}^{} \cdots -j_{ik}+1)$$

$$n_{ik}+j_{ik}\cdots sa-\Bbbk_2 \quad (n_{sa}+j\cdots j_i-\Bbbk_3)$$

$$\sum_{n_{sa}-\,\Bbbk_3-j^{sa}+}^{} \sum_{(n_s=n-j_i+1)}^{}$$

$$\frac{(n_i - _{\,ik} - \Bbbk_1 - 1)!}{(j_{ik}\cdots 2)! \cdot (\cdots - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{s}\cdots - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(\cdots - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{(l_{ik} - j_{ik} - l_s + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=l_{ik}+n-D}^{l_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!}\cdot$$

$$\frac{1}{(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}- \qquad j_i - \cdot j_{sa}^{s})!}\cdot$$

$$\frac{-k-1)!}{(\boldsymbol{l}_s-j_s-\quad 1)!\cdot(j_s-\quad)}\cdot$$

$$\frac{(D-\quad)!}{(D \quad j_i-\boldsymbol{n}-\boldsymbol{l}_{ik}\quad \boldsymbol{n}-j_i)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D-\boldsymbol{n}+1 \wedge$$

$$1 \leq j_s \leq j_{ik}-j_{sa}^{ik}+1 \wedge j_s+j_{sa}^{ik}-1 \leq j_{ik}\quad j^{sa}+j_{sa}^{ik}-j\quad \wedge$$

$$j_{ik}+j_{sa}-j_{sa}^{ik} \leq j^{sa} \leq j_i + \quad -s \wedge \quad +s-\quad \leq j_i \leq \quad \wedge$$

$$\boldsymbol{l}_{ik}-j_{sa}^{ik}+1 > \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa}+j_s\quad -j_{sa}=\boldsymbol{l}_{ik} \wedge \quad +j_{sa}-s=\boldsymbol{l}_{sa} \wedge$$

$$D+j_{sa}^{ik}-\boldsymbol{n} < \boldsymbol{l}_{ik} \leq D+\boldsymbol{l}_s+j_{sa}\quad \boldsymbol{n}-1 \wedge$$

$$D \geq \boldsymbol{n} < n \quad I = \Bbbk \quad 0 \wedge$$

$$j_{sa} < j_{sa}^{i}-1 \wedge j\quad k=j_{sa}\quad \wedge j_{sa}^{s}\quad j_{sa}^{ik}-1 \wedge$$

$$\boldsymbol{s}:\{j_{sa},\dots,\Bbbk_1,j_{sa}^{ik},\Bbbk_2,\dots,\dots,\Bbbk_3,j_{sa}\} \wedge$$

$$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s}\quad s+\Bbbk \wedge$$

$$\Bbbk_z:\quad 3 \wedge \Bbbk=\Bbbk_1+\Bbbk_2+\Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s,j_{ik},j^{sa},j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_{ik}+\boldsymbol{n}-D-j_{sa}^{ik})}$$

$$\sum_{j_{ik}=\boldsymbol{l}_{ik}+\boldsymbol{n}-D}^{\boldsymbol{l}_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}+j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s-\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=\boldsymbol{l_{ik}}+\boldsymbol{n}-D-j_{sa}^{ik}+1)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(- 1)!}{(n_s + - \boldsymbol{n} - 1 - j_i)!} \cdot$$

$$\frac{(k - 1)!}{(j_s - k \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - j_{sa}^{ik})!}{(j_s + \boldsymbol{l_{ik}} - \boldsymbol{l_s}) \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(D \boldsymbol{l_i})!}{(D + - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {}_i\boldsymbol{l}} \sum_{(j_s = 1)}^{(}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{ - {}_i\boldsymbol{l} + 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum^{(\boldsymbol{l_s} + k + 1)}_{(k=\boldsymbol{l_{ik}}+\boldsymbol{n}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_s} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{n_{is}=\boldsymbol{n}+\Bbbk-j_s} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n=n_{ik}+j_{ik}-\boldsymbol{n}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

664 $\quad\quad D > \boldsymbol{n} < n$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
{}_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{\left(j_{ik} - j_{sa}^{ik} + 1\right)}
$$

$$
\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{} \sum_{(j_{sa}+1)}^{(j_i+j_{sa}} \sum_{=s+1}^{\boldsymbol{l_s}+s-k}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{sa}+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}}
$$

$$
\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j_{ik}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot
$$

$$
\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$\sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(l_{sa}-k+1)} \sum_{j_i=l_s+s-k}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-\ )}^{(n_{ik}+j_{ik}-j^{sa})} \sum_{n_s=\boldsymbol{n}-j_i+}^{+j^{sa}+j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})! \cdot (j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=_il} \sum_{(j_s=1)}^{(\ )}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa})}^{\left(l_{sa}-{}_il+1\right)} \sum_{j_i=s}^{l_i-{}_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik})}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\ j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\ldots 1)!}{(j_{ik}-2)!\cdot(n_i\ldots_{ik}-j_{ik}-\ldots_1 1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}\ldots)!}{(j^{sa}-j_{ik}\ldots+j_{ik}\ldots_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\ldots\Bbbk_3-1)!}{(j_i-j^{sa}-\ldots(n_{sa}\ldots_{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s\ldots_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\ldots_{ik}-\boldsymbol{l}_s-j_{sa}^{ik}+1)!}{(\boldsymbol{l}_{ik}-j_{ik}-\boldsymbol{l}_s+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l}_i+j_{sa}-\boldsymbol{l}_{sa}-s)!}{(\ldots+\boldsymbol{l}_i-j_i-\boldsymbol{l}_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{{}_il-1}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\sum_{j_i=s+1}^{\boldsymbol{l}_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!}$$

$$\frac{(l_s - k - \;)!}{(l_s - j_s - k + 1)! \cdot (\;_{js} - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - \;- l_i)! \cdot (\boldsymbol{n} - \;)!} -$$

$$\sum_{k} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i + \;+ j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \;\boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - s)!}$$

$$D \geq \boldsymbol{n} < \;\; l_i \leq D + s - \boldsymbol{n} \wedge$$

$$\; < \; \;_k - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

668 $\qquad$ $D > \boldsymbol{n} < n$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i} \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik} - j_{sa}^{ik} + 1\right)}
$$

$$
\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}}^{(\boldsymbol{l_s} + j_{sa} - k)} \sum_{(j^{sa} - j_s)}^{\cdots} \sum_{j_i = j^{sa} - j_{sa}}^{\cdots - k+1}
$$

$$
\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_i - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \cdots + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik}}
$$

$$
\sum_{(\cdots = \boldsymbol{n} + \Bbbk_3 - \cdots 1)}^{\left(n_{ik} \cdots - j^{sa} - \Bbbk_2\right)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{\cdots - j_i - \Bbbk_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - \;\;)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(\cdots_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(\cdots - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot
$$

$$
\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$\sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j^{ik}_{sa}-j_{sa}} \sum_{(j^{sa}=l_s+j_{sa}-k+1)}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-\quad 1)}^{(n_{ik}+j_{ik}-j^{sa}\quad)} \sum_{n_s=\boldsymbol{n}-j_i+}^{+j^s\quad j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s-2)! \cdot (\quad -n_{is}-j_s+1)!} \cdot$$

$$\frac{(\quad - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s\quad n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}\quad n_{sa}-1)!}{(j^{sa}\quad_{ik}-1)! \cdot (\quad n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i-\quad a-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j^{ik}_{sa} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j^{ik}_{sa} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_il} \sum_{(j_s=1)}^{(\quad)}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa})}^{\left(l_{sa}-\,_il+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\,_{j_i}+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{ik}-\ldots 1)!}{(j_{ik}-2)!\cdot(n_i\ldots_{ik}-j_{ik}-\ldots 1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}\ldots)!}{(j^{sa}-j_{ik}\ldots +j_{ik}\ldots n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\ldots\Bbbk_3-1)!}{(j_i-j^{sa}-\ldots)!\cdot(n_{sa}\ldots^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s\ldots_{j_i}-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\ldots_{ik}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(\ldots+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{\,_il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!}$$

$$\frac{(l_s - k -)!}{(l_s - j_s - k + 1)! \quad (l_s - 2)!}$$

$$\frac{(D - l_i)!}{(D + j_i - l_i)! \cdot (\boldsymbol{n} -)!} -$$

$$\sum_{j_s=1}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{n}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i + + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < \; l_i \leq D + s - \boldsymbol{n} \wedge$

$ < j - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$

$\qquad D > \boldsymbol{n} < n$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i \boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l}_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-\ )}^{(\ )} \sum_{\ =j^{s}\ -j_{sa}}^{\ -k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\ )}^{(n_i-j_s+1)} \sum_{n_{ik}=\ +\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\ }$$

$$\sum_{(n\ =\boldsymbol{n}+\Bbbk_3-j\ )}^{(n_{ik}+\ -j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{\ -j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - \ )! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - \ _s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(\ _a - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l}_{ik} - \boldsymbol{l}_s - j_{sa}^{ik} + 1\right)!}{\left(j_s + \boldsymbol{l}_{ik} - j_{ik} - \boldsymbol{l}_s\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{_i l-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=l_s+j_{sa}^{ik}-k+1}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-)}^{(n_{ik}+j_{ik}-j^{sa})} \sum_{n_s=\boldsymbol{n}-j_i+}^{+j^{s}_{ }j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i l}^{\ } \sum_{(j_s=1)}^{(\ )}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{l_{ik}-\ _il+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik})}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\ j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk)}$$

$$\frac{(n_i - n_{ik} - \ 1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\ 1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa} \ )!}{(j^{sa}-j_{ik} \ )! \cdot (\ +j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-\ -\Bbbk_3-1)!}{(j_i-j^{sa}-\ )! \cdot (n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s \ j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\ _{ik}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)! \cdot (j_{ik}-j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^s+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})! \cdot (j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{\ _il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s\!a}^s)!}$$

$$\frac{(\boldsymbol{l_s} - k -)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (- 2)!}$$

$$\frac{(D - \boldsymbol{l_i}) }{(D + j_i - - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - !} -$$

$$\sum_{}^{(\;)} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}} \sum_{(j^{sa}=j_{sa})}^{(\;)} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\;)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\;)}$$

$$\frac{(n_i + + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$$D \ge \boldsymbol{n} < \boldsymbol{l_i} \le D + s - \boldsymbol{n} \wedge$$

$$\phantom{<} j \phantom{<} {}_k - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \le j_i \le \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} = \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$$

$$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

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$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l}_s-k+1)}
$$

$$
\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l}_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa})}^{()} \sum_{j_i=j^{s}}^{-k+1}{}_{-j_{sa}}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{}=+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}}
$$

$$
\sum_{(n_{ik}-j^{sa}-\Bbbk_2)}^{-j_i-\Bbbk_3} \sum_{n_s=\boldsymbol{n}-j_i+1}^{}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l}_{ik} - \boldsymbol{l}_s - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l}_{ik} - j_{ik} - \boldsymbol{l}_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot
$$

$$
\frac{(\boldsymbol{l}_i + j_{sa} - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - j_i - \boldsymbol{l}_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot
$$

$$
\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$\sum_{k=\ _il}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{l_{ik}-\ _il+1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )}\sum_{j_i=j^{sa}+s-}^{l_i-\ _il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{j^{sa}+\ -\Bbbk_3}$$

$$\frac{(\quad-\Bbbk_1\quad1)!}{(\quad-2)!\cdot\quad-n_{ik}\quad+1)!}\ \cdot$$

$$\frac{(n_{ik}-\quad-1)!}{(j^{sa}-j_{ik}-\quad)!\cdot(n_{ik}+\quad-n_{sa}-j^{sa})!}\ \cdot$$

$$\frac{(n_{sa}-\quad-\Bbbk_3-1)!}{(\quad-j^{\ }\quad1)!\cdot(n+j^{sa}-n_s-j_i-\Bbbk_3)!}\ \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\ \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\ \cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\ \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}\ -$$

$$\sum_{k=1}^{\ _il-1}\sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )}\sum_{j_i=j^{sa}+s-j_{sa}}$$

678    $D > \boldsymbol{n} < n$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\quad - k - 1)!}{(\boldsymbol{l}_s - j_s - \quad 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\quad}{(D + \quad - \boldsymbol{n} - \boldsymbol{l}_i)! \quad - j_i)!} -$$

$$\sum_{k=\ _i\boldsymbol{l}}^{(\ )} \sum_{(j_s=1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{(\ )} \sum_{(j^{sa}=j_{sa})} \sum_{j_i=s}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{(\ )} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + s - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge s = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$fz S_{j_s, j_{ik}, j^{sa}, j_i} \sum_{(j_i=1)}^{l-1} \sum_{(j_s=2)}^{j_i - ? (?+1)}$$

$$\sum_{j_{ik}=j^{sa}}^{(j_{ik}-j_{sa})} \sum_{(j^{sa}+n-D)}^{?} \sum_{j_i=l_i+n-D}^{l_s+s-k}$$

$$\sum_{n_i=n}^{n} \sum_{(n_{is}=n+\Bbbk_?+1)}^{(n_i-?+1)} \sum_{n_{ik}=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \ldots}$$

$$\sum_{j_{ik} = j^{sa} + j^{ik}}^{\ldots} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n}}^{\ldots - k + 1)} \sum_{j_i = \boldsymbol{l_s} + s - k + 1}^{\ldots} \quad \sum_{k=1}^{\ldots} \sum_{(j_s = 2)}^{(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk \; (\ldots}^{n_i \ldots + 1)} \sum_{\ldots + \Bbbk - j_s + \ldots}^{(n_i \ldots + 1)} \sum_{\ldots = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{\ldots - \Bbbk_1}$$

$$\sum_{(n_{sa} = \ldots \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} \ldots - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(\ldots - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\ _i\boldsymbol{l}}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(l_{sa}-\ _i\boldsymbol{l}+1\right)}\sum_{=\boldsymbol{l_i}+\boldsymbol{n}-D}^{l_i-\ _i\boldsymbol{l}+}$$

$$\sum_{n_i=\boldsymbol{n}+\ }^{n}\sum_{=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j\ \ 1)}^{(n_i-j_{ik}-\ \ 1)}$$

$$\ j_{ik}-j^{sa}-\Bbbk_2\ \ sa+j^{sa}-j_i-\Bbbk_3)$$

$$\sum_{n_{sa}=n\ \ -j^{sa}+1}\sum^{\ +1)}$$

$$\frac{(n_i-n_{ik}\ \ \Bbbk_1-1)!}{(j_{ik}-2)!\ \ (n_i-n_{ik}\ \ j_{ik}-\Bbbk_1+1)!}\cdot$$

$$\frac{(n_{ik}\ \ n_{sa}-1)!}{(j^{sa}\ \ -1)!\ \ n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\ \ -1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1\right)!}{\left(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1\right)!\cdot\left(j_{ik}-j_{sa}^{ik}\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s\right)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{- k - 1)!}{(\boldsymbol{l}_s - j_s - \cdots 1)! \cdot (j_s - \cdots)} \cdot$$

$$\frac{(D - \cdots)!}{(D - \cdots j_i - \boldsymbol{n} - \boldsymbol{l}_{\cdots} \cdots n - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \cdots j^{sa} + j_{sa}^{ik} - \cdots \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \cdots - s \wedge \cdots + s - \cdots \leq j_i \cdots \cdots \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{s} \cdots - j_{sa} = \boldsymbol{l_{ik}} \wedge \cdots + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \cdots 1 \wedge$

$D \geq \cdots < n \cdots I = \Bbbk \cdots 0 \wedge$

$j_{sa} \cdots < j_{sa}^{i} - 1 \wedge \cdots k = j_{sa} \cdots \wedge j_{sa}^{s} \cdots j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{s} \cdots \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, \cdots \cdots, \Bbbk_3, j_{sa}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \cdots s + \Bbbk \wedge$

$\Bbbk_z: \cdots 3 \wedge \Bbbk = \cdots_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_{i}l-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s-1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s-\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{_i}\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - j_s - j_{sa}^{ik} + 1)!}{(j_s + j_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(- 1)!}{(n_s + - \boldsymbol{n} - 1)! \cdot (- j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{s}} k - 1)!}{(_s - k)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - j_{sa}^{ik})!}{(j_s + \boldsymbol{l_{ik}} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} _a - \boldsymbol{l_{sa}} s)!}{(+ \boldsymbol{l_i} - j_i - \boldsymbol{l_s})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = _i \boldsymbol{l}} \sum_{(j_s = 1)}^{()}$$

$$\sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(\boldsymbol{l_{sa}} - _i \boldsymbol{l} + 1)} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{\boldsymbol{l_i} - _i \boldsymbol{l} + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)} ^n$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - \right)} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D -)!}{(D + j - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (- j_i)!} -$$

$$\sum_{k=}^{D + \boldsymbol{l_s} + s - } \sum_{(- j_{sa}^{ik} + 1)}^{(\ \ )}$$

$$\sum_{j_{ik} = + j_{sa}^{ik} - j_{sa}} \sum_{(j^{sa} = + j_{sa} - D - s)}^{(\boldsymbol{l_s} + \ \ k)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{= \boldsymbol{n} + \Bbbk} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - \ 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\ \ )} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \le D + l_s + s - n - 1 \wedge$$

$$D \ge n < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \ge 6 \wedge s = s + \Bbbk \wedge$$

$$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s,\, j_{ik},\, j^{sa},\, j_i} \sum_{()} \sum_{(j_s=2)}^{(l-1)}$$

$$\sum_{j_{ik}=l_{ik}+n}^{+n+j_{sa}^{ik}-D-s-} \sum_{(j^{sa}=j_{ik}-j_{sa}^{ik})} \sum_{j_i=l_i+n-D}^{l_i-k+1}$$

$$\sum_{n_i=n}^{n} \sum_{(n_{is}=n+\Bbbk_{is}+1)}^{(n_i-1)} \sum_{n_{ik}=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s}\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}\right)! \cdot \left(j_i + j_{sa} - j^{sa} - s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j=2)}^{(\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa}^{ik} - D}^{\boldsymbol{l_s} + j_{sa}^{ik} - k} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk \, (n_{is}}^{} \sum_{} \sum_{n_{sa} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{- \Bbbk_1}$$

$$\sum_{(n_{sa} = \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(_k - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s}\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{(l_s - k + 1)}$$

$$\sum_{j_{ik}=l_s+j_{sa}^{ik}-k+1}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}}^{(\ )} ^{-k+1}_{-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}}^{(n_i-j_s+1)} \sum_{n_{ik}=n}^{n_{is}+j_s-j_{ik}-\Bbbk}{}_{+\Bbbk_3-j_{ik}+1}$$

$$^{(n_{ik}+}^{j^{sa}-\Bbbk_2)} ^{j_i-\Bbbk_3}$$

$$\sum_{(n_s}^{} _{n+\Bbbk_3-j}^{} \sum_{n_s=n-j_i+1}^{}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - _s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$D > \boldsymbol{n} < n$

$$\sum_{k=\,_i\boldsymbol{l}}^{(\;)} \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\,_i\boldsymbol{l}+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{\boldsymbol{l_i}-\,_i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ldots-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{\ldots\,j^{sa}\ldots-\Bbbk_3}$$

$$\frac{(\ldots-\Bbbk_1\ldots1)!}{(\ldots-2)!\cdot(\ldots-n_{ik}\ldots+1)!}\cdot$$

$$\frac{(n_{ik}-\ldots-1)!}{(j^{sa}-j_{ik}-\ldots)!\cdot(n_{ik}+\ldots-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\ldots-\Bbbk_3-1)!}{(\ldots-j\ldots1)!\cdot(n\ldots+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2\cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2\cdot j_s + j^{ik}_{sa} - j_{ik} - j_i - \cdot j^s_{sa}\right)!} \cdot$$

$$\frac{- k - 1)!}{(\boldsymbol{l}_s - j_s - \quad 1)! \cdot (j_s - 2\quad}\cdot$$

$$\frac{(D - \quad)!}{(D\ -\ j_i - \boldsymbol{n} - \boldsymbol{l}_{ik}\ \quad\ \boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j^{ik}_{sa} + 1 \wedge j_s + j^{ik}_{sa} - 1 \leq j_{ik} \quad j^{sa} + j^{ik}_{sa} - j \quad \wedge$

$j_{ik} + j_{sa} - j^{ik}_{sa} \leq j^{sa} \leq j_i + \quad - s \wedge \quad + s - \quad \leq j_i \quad \quad \wedge$

$\boldsymbol{l}_{ik} - j^{ik}_{sa} + 1 > \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s \quad - j_{sa} = \boldsymbol{l}_{ik} \wedge \quad + j_{sa} - s > \boldsymbol{l}_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l}_i \leq D + \boldsymbol{l}_s + s - \quad 1 \wedge$

$D \geq \quad < n \wedge I = \Bbbk \quad 0 \wedge$

$j_{sa} < j^i_{sa} - 1 \wedge j_{ik} = j_{sa} \quad \wedge j^s_{sa} \quad j^{ik}_{sa} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}, \ldots, \Bbbk_1, j^{ik}_{sa}, \Bbbk_2, \quad \ldots, \Bbbk_3, j_{sa}\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} \quad s + \Bbbk \wedge$

$\Bbbk_z: \quad 3 \wedge \Bbbk = \quad + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s\,,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{(l_i + \boldsymbol{n} - D - s)}$$

$$\sum_{j_{ik}=\boldsymbol{l}_{ik}+\boldsymbol{n}-D}^{\boldsymbol{l}_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j^{ik}_{sa})}^{(\quad)} \sum_{j_i=\boldsymbol{l}_i+\boldsymbol{n}-D}^{\boldsymbol{l}_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_{ik}} - l_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n-j^{sa})!}$$

$$\frac{(n_{sa}-n-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-l-j_{sa}^{ik}+1)!}{(j_s+l-j_{ik}-l)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=\,_il}\sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\,_il+1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\;)}\sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-\,_il+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \quad)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \quad^{ik} + \quad)!}{(\boldsymbol{l_{ik}} - j_{ik} - \quad \boldsymbol{l_s} + 1)! \cdot (\quad - j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - \quad)! \cdot (j_i + \quad - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \quad - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{\quad = 1}^{\boldsymbol{l_s} + s - \boldsymbol{n} - \quad} \sum_{(j_s = \boldsymbol{l_i} + \boldsymbol{n} - D - s + 1)}^{(\boldsymbol{l_s} - k + 1)}$$

$$\sum_{j_{ik} \quad s + j_{sa}^{ik} - 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\quad)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\quad)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{\epsilon z} S_{j_s, j_{ik}, j_{sa}, j_i} = \sum_{k=1}^{\boldsymbol{l}^{\cdots}(j_{ik} - j_{sa}^{ik} + 1)} \sum_{(j_s = 2)}$$

$$\sum_{j_{ik} = j_s^{ik}\cdots}^{j^{sa} + \cdots - j_{sa}\cdots)} \sum_{(j^{sa} = j_i + j_{sa} - s)} \sum_{j_i = s+1}^{\boldsymbol{l_s} + s - k}$$

$$\sum_{n_i\cdots + \Bbbk}^{n\cdots(\cdots - j_s + 1)} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - \ldots)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1}^{\ldots} \sum_{(j_s=2)}^{\ldots(\ldots k+1)}$$

$$\sum_{j_{ik}=\ldots_a^{ik}+1}^{l_{ik}-\ldots} \sum_{(j^s\ldots+j_{sa}-s)}^{\ldots} \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{l_i-k+1}$$

$$\sum_{n_i=\ldots \Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-\ldots+1)}^{(n\ldots\ldots+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{\ldots_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{\ldots_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(j_s + l_{ik} - j_{ik} - l_s\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=}^{(\ )} \sum_{(j_s = 1)}^{}$$

$$\sum_{}^{l_{ik} - _i l + 1} \sum_{(j^{sa} = j_i + - s)}^{(\ )} \sum_{j_i = s}^{_i + 1}$$

$$\sum_{_i = n + \Bbbk ( )}^{(n_i + 1)} \sum_{(_i = n + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{}$$

$$\sum_{\Bbbk_3 - j^{sa} + 1}^{n_{ik} + j^{sa} - \Bbbk_2} \sum_{(n_s = n - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{(l_{ik} - j_{ik} - l_s + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=s}^{\boldsymbol{l}_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+\ -j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{=n_{sa}+j^{sa}-j_i}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-\ \ -\Bbbk_2-\ -2\cdot j_{sa}^s\right)!}{\left(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3\right)} \cdot$$

$$\frac{1}{\left(\boldsymbol{n}+2\cdot \ \ +j_{sa}^{ik}-\ -j_i-2\cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l}_s-k-1)!}{\left(\boldsymbol{l}\ \ j_s-k+1\right)!\cdot (j_s-2)!} \cdot$$

$$\frac{(D-\boldsymbol{l}_i)!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l}_i)!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=\ _i\boldsymbol{l}}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s\right)!}{\left(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3\right)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \cdots, \mathbb{k}_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$${}_{fz}S_{j_s, \cdots, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{\left(j_{ik} - j_{sa}^{ik} + 1\right)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{sa+j_{sa}^{ik}-\cdots} \sum_{(j^{sa}=j_{sa}+1)}^{(l_s+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\mathbb{k}_2+\mathbb{k}_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\mathbb{k}_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\mathbb{k}_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + \cdots)!}$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - \cdots - j_{sa})!}$$

$$\frac{(D \cdots)!}{(D + j_i \cdots \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\cdots j_i)!} +$$

$$\sum^{\cdots} \sum_{(j_s = 2)}^{\cdots \, l - 1 \,(l_s - k + 1)}$$

$$\sum_{j_{ik} = j_{sa}^{ik} + 1}^{\boldsymbol{l_{ik}} - k} \sum_{(j^{sa} \cdots + j_{sa} - k + 1)}^{(\boldsymbol{l_{sa}} \cdots 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n \cdots a + \Bbbk}^{n \cdots} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j \cdots)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(j_s + l_{ik} - j_{ik} - l_s\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - }$$

$$\sum_{k=}\sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{l}}^{l_{ik}-_il+1}\sum_{-j_{sa}^{ik}}^{\left(l_{sa}+1\right)}\sum_{=j^{sa}+s-j_{sa}}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{(n_i}\sum_{(n+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{1)}$$

$$\sum_{\Bbbk_3-j^{sa}+1}^{n_{ik}+j^{sa}-\Bbbk_2}\sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(l_{ik} - j_{ik} - l_s + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{_i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ \ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{(\ \ )}{}_{=n_{sa}+j^{sa}-j_i}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}\ \ -\Bbbk_2\ -\ -2\cdot j_{sa}^s\right)!}{(n_i\ \ \boldsymbol{n}-\Bbbk_1\ \ \Bbbk_2-\Bbbk_3)} \cdot$$

$$\frac{1}{\left(\boldsymbol{n}+2\ \ +j_{sa}^{ik}-\ -j_i-2\cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l}\ \ j_s-k+1)!\cdot(j_s-2)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=\ _i\boldsymbol{l}}^{\ \ } \sum_{(j_s=1)}^{(\ \ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\ \ } \sum_{(j^{sa}=j_{sa})}^{(\ \ )} \sum_{j_i=s}^{\ \ }$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ \ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{\ \ } \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ \ )}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-2\cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - s)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s , \ldots , j^{sa}, j_i} = \sum_{k=1}^{_i l - 1} \sum_{(j_s=2)}^{(j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{k = j_{sa}^{ik} + 1}^{l_s \ldots k - k} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{\ldots - k + 1} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

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$$D > \boldsymbol{n} < n$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + \ldots)} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - \ldots - j_{sa})!} \cdot$$

$$\frac{(D \ldots)!}{(D + j_i \ldots \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\ldots j_i)!} +$$

$$\sum_{\ldots}^{\ldots l-1 \, (\boldsymbol{l_s} - k + 1)} \sum_{(j_s = 2)}$$

$$\sum_{j_{ik} = \ldots + j_{sa}^{ik} - k + 1}^{\boldsymbol{l_{ik}} - k + 1} \sum_{(j^{sa} \ldots + j_{sa} - j_{sa}^{ik})}^{(\boldsymbol{l_{sa}} \ldots 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n \ldots + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j \ldots)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=1}^{} \sum_{(j_s=1)}^{()}$$

$$\sum_{j_{ik}=j_{sa}^{l}}^{l_{ik} - {}_i l + 1} \sum_{}^{(l_{sa} + 1)} \sum_{}^{j^{sa} + s - j_{sa}}$$

$$\sum_{=n + \Bbbk}^{(n_i)} \sum_{}^{(n + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}$$

$$\sum_{\Bbbk_3 - j^{sa} + 1}^{n_{ik} + j} \sum_{(n_s = n - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(l_{ik} - j_{ik} - l_s + 1)! \cdot (j_{ik} - j_{sa}^{ik})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{i\boldsymbol{l}-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l}_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+\ j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{=n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - \ - \Bbbk_1 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=\ _i\boldsymbol{l}}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$D \geq n < n \wedge l_i \leq D + s - n \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D \geq n < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$s : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge s = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$fz \cdots j_{ik}, j^{sa}, j_i \cdots \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = 2)}^{(l_s - k + 1)}$$

$$\sum_{j_{ik} = \cdots s + j_{sa}^{ik} - 1}^{l_{ik} \cdots 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\cdots - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = n + \Bbbk} \sum_{(n_{is} = n + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = n - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + \right)} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - - j_{sa}\right)!} \cdot$$

$$\frac{(D \quad)!}{(D + j \quad \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\quad j_i)!} +$$

$$\sum \sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\boldsymbol{l_{ik}} - \;} \sum_{(j^{sa}= + j_{sa} - j_{sa}^{ik})}^{\left(\boldsymbol{l_{sa}} - \;\right)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=1}^{{}_i l - 1} \sum_{(j_s = 2)}^{(l_s - k + 1)}$$

$$\sum_{j_{ik} = j_s + j_{sa}^{ik} - 1} \sum_{(j^{sa} = j_i + j_{sa} - j_{sa}^{ik})}^{(\ )} \sum_{{}^{sa} - j_{sa}}$$

$$\sum_{n_i = n + \Bbbk} \sum_{(n_{ik} = n_i + \Bbbk}^{(n_i - j_s + 1)} \sum_{j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j^{sa} - \Bbbk_2)}^{(\ )} \sum_{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k = {}_i l} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}} \sum_{(j^{sa} = j_{sa})}^{(\ )} \sum_{j_i = s}$$

$$\sum_{n_i = n + \Bbbk}^{n} \sum_{(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{(\ )}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\mathbb{k}_3)}^{(\;)}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3 - 2 \cdot j_{sa}^{s}\right)!}{(n_i - \boldsymbol{n} - \mathbb{k}_1 - \mathbb{k}_2 - \mathbb{k}_3)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - \;)!}$$

$$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n}\; \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} \quad \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{\;} \; 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \cdots, \mathbb{k} \right.$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{\left(j_{ik} - j_{sa}^{ik} + 1\right)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\;)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\mathbb{k}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\mathbb{k}-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\mathbb{k}_2+\mathbb{k}_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\mathbb{k}_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\mathbb{k}_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \quad)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\quad k - 1)!}{(\boldsymbol{l_s} - \quad - k + \quad - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa} + 1)!}{(j_s + \boldsymbol{l_{ik}} - \quad)! \cdot (j_{ik} - \quad - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\quad_a + j_{sa}^{ik} \quad \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{s} \quad \boldsymbol{l_{ik}})! \cdot (\quad + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + \quad - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \; \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1} \; \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\;)} \; \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \; \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \; \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \; \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s)} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s {}_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \right)}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot {}_{sa}^{ik} - j_{ik} _{sa})!} \cdot$$

$$\frac{(D \boldsymbol{l}_i)!}{+ j \boldsymbol{n} - \boldsymbol{l}_i (\boldsymbol{n} - j_i)!} \cdot$$

$$\sum_{k = \,_i l}^{()} \sum_{(j_s = 1)}^{()}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{\boldsymbol{l_{ik}} - \,_i l + 1} \sum_{(j^{sa} = j_i + j_{sa} - s)}^{()} \sum_{j_i = \boldsymbol{l_i} + \boldsymbol{n} - D}^{l_i - \,_i l + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(l_{ik} - j_{ik} - l_s + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$\sum_{k=}^{D+l_s+s-n-l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=j^{sa}}^{} \sum_{(j^{sa}=j_i+j_s-s)}^{(\quad)} \sum_{j_i=l_i+n-D}^{}$$

$$\sum_{n_i=n+\Bbbk}^{(n+\Bbbk+1)} \sum_{(n=n+\Bbbk-j_s}^{} \sum_{j_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(n=n_{ik}+j}^{(\quad)} \sum_{-\Bbbk_2)}^{} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}^{}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n - n - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(n + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$$D \quad n \quad \wedge l_s \leq D - n + 1 \wedge$$

$$1 \leq j_s \leq j \quad - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$D \geq n < n \wedge I = \Bbbk > 0 \wedge$$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s} : \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},\,j^{sa},\,j_i} = \sum_{k=1}^{il-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+\cdots D-s)}^{(\boldsymbol{l_s}+j_{sa}-\cdots} \sum_{j_i=j^{sa}+s}^{\cdots}$$

$$\sum_{n_i=n}^{n} \sum_{(n_{is}=n+\cdots+1)}^{\cdots+1)} \sum_{n_{ik}=n\cdots}^{\cdots j_{ik}+1}$$

$$\sum_{(n_{sa}=n\cdots 3-j^{sa}+1)}^{\cdots+j_{ik}-\cdots\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(\cdots_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} + \cdots_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=l_{ik}+n-D}^{l_{ik}-k+1} \sum_{(j^{sa}=l_s+j_{sa}-k+1)}^{(l_i+j_{sa}-k-s+1)} \sum_{j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s)}^{(n_i-j_s+1)} \sum_{n_{ik}=n+\Bbbk_2+\cdots+1}^{n_{is}+j_s-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-j)}^{(n_{ik}+j_{ik}-j^{sa})} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-n}$$

$$\frac{-n_{is}-1)!}{(-2)! \cdot (-n_{is}-j_s+1)!}$$

$$\frac{(n_{is}-\cdots-\Bbbk_1-1)!}{(j_{ik}-\cdots-1)! \cdot (n\cdots+j_s-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j\cdots-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(\cdots-j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (n-j_i)!} \cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(l_{ik}-l_s-j_{sa}^{ik}+1)!}{(j_s+l_{ik}-j_{ik}-l_s)! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\ _i\boldsymbol{l}+1} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{\left(\boldsymbol{l_i}+j_{sa}-\ _i\boldsymbol{l}-s+1\right)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{\ j^{sa}\ -\Bbbk_3}$$

$$\frac{(\quad -\Bbbk_1 \quad 1)!}{(\quad -2)! \quad -n_{ik} \quad +1)!} \cdot$$

$$\frac{(n_{ik}- \quad -1)!}{(j^{sa}-j_{ik}- \quad \cdot (n_{ik} \quad -n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}- \quad -\Bbbk_3-1)!}{(\ -j^{\ } \quad 1)! \cdot (n \quad +j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)! \cdot (j_{ik}-j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ \ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_i - j_{sa}^{s}\right)!} \cdot$$

$$\frac{-k-1)!}{(\boldsymbol{l}_s - j_s - 1)! \cdot (j_s - 2} \cdot$$

$$\frac{(D-1)!}{(D - j_i - \boldsymbol{n} - \boldsymbol{l}_{ik} - \boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} + j^{sa} + j_{sa}^{ik} - j \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j - s \wedge j + s - j \leq j_i \leq j \wedge$

$\boldsymbol{l}_{ik} - j_{sa}^{ik} + 1 > \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_s - j_{sa} > \boldsymbol{l}_{ik} \wedge j + j_{sa} - s = \boldsymbol{l}_{sa} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l}_i \leq D + \boldsymbol{l}_s + s - j - 1 \wedge$

$D \geq j < n \wedge I = \Bbbk \wedge 0 \wedge$

$j_{sa} < j_{sa}^{i} - 1 \wedge j^{ik} = j_{sa} \wedge j_{sa}^{s} - j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \{j_{sa}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, \cdots, \Bbbk_3, j_{sa}\} \wedge$

$s \geq 6 \wedge s < s + \Bbbk \wedge$

$\Bbbk_z: 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{\,_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=\boldsymbol{l}_{ik}+\boldsymbol{n}-D}^{\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}^{ik}-D-s-1} \sum_{(j^{sa}=\boldsymbol{l}_i+\boldsymbol{n}+j_{sa}-D-s)}^{(\boldsymbol{l}_i+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_s - j_s + 1)} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - \ - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - \ - n_{sa} - \ )!} \cdot$$

$$\frac{(n_{sa} - n_s - \ )!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - \ - \Bbbk_3)!} \cdot$$

$$\frac{(\ - n_s - 1)!}{(\ + j_i - \ + 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l} \ - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s - \ _{ik} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_i}+j_{sa}-k-s+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-j_s-j_{sa}^{ik}+1)!}{(j_s+l_s-j_{ik}-l_s)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{{}_il-1}\sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_s}+j_{sa}^{ik}-k+1}^{\boldsymbol{l_{ik}}-k+1}\sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_i+j_{sa}-k-s+1)}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}\sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j)!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(\;\;\; - 1)!}{(n_s + \;\; - \boldsymbol{n} - \;\;) \cdot (\;\; - j_i)!} \cdot$$

$$\frac{(\;\;k - 1)!}{(j_s - k\;\;)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} \;\; - j_{sa}^{ik} \;)!}{(j_s + \boldsymbol{l_{ik}} \;\; - \boldsymbol{l_s}) \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{s} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_s} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = \; _i\boldsymbol{l}} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{\boldsymbol{l_{ik}} - \; _i\boldsymbol{l} + 1} \sum_{(j^{sa} = \boldsymbol{l_i} + \boldsymbol{n} + j_{sa} - D - s)}^{(\boldsymbol{l_i} + j_{sa} - \; _i\boldsymbol{l} - s + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} +}$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} - 1)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot (- j_{sa}^{ik})!}$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}})}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (+ j_{sa}^{ik} -)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(+ j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=1} \quad \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{+s - \boldsymbol{n} - \boldsymbol{l_i}}$$

$$\sum_{j_{ik} = + j_{sa}^{ik} - D - s} \quad \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{\boldsymbol{l_s} ik - k} \quad \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk} \quad \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \quad \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{()} \quad \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$$1 \le j_s \le j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \le j_{ik} \le j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \le j^{sa} \le j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \le j_i \le \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$$

$$D + s - \boldsymbol{n} < \boldsymbol{l_i} \le D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1 \wedge$$

$$D \ge \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s} \colon \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \ge 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z \colon z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$fzS_{j_s, j_{ik}, sa, j_i} = \sum_{k=1}^{(\boldsymbol{l} \cdots \boldsymbol{l} + \boldsymbol{n} - D - s)} \sum_{(j_s=2)}$$

$$\sum_{j_{ik}=l_{ik} \cdots - D}^{l_{ik}-k+1} \sum_{(j^{sa}=l_i \cdots + j_{sa}-D-s)}^{(\cdots j_{sa}-k-s+\cdots)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i \cdots +\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(\cdots s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j\right)!} \cdot$$

$$\frac{(D - l_i)}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=\ }^{l-1} \sum_{j_s = l_i + n - D - s + }$$

$$\sum_{j_{ik} = j_s + j \ +1}^{l_{ik} - k + 1} \sum_{(j^{sa} = j_{ik} \ sa - j_{sa}^{ik})}^{\ -s+1} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \ \mathbb{k}\ (n_{is} = n + \mathbb{k} - \ +1)}^{n} \sum_{n_{ik} = n + \mathbb{k}_2 + \mathbb{k}_3 - j_{ik} + 1}^{\ s + j_s - j_{ik} - \mathbb{k}_1}$$

$$\sum_{(n_{sa} = n + \mathbb{k}_3 - j^{sa} + 1)}^{\ ik - j^{sa} - \mathbb{k}_2} \sum_{n_s = n - j_i + 1}^{n_{sa} + j^{sa} - j_i - \mathbb{k}_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(j_s + l_{ik} - j_{ik} - l_s\right)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=}^{} \sum_{(j_s=1)}^{(\,)}$$

$$\sum_{j_{ik}=l_{ik}+\boldsymbol{n}-D}^{l_{ik}-\,{}_il+1} \sum_{}^{\left(l_i+j_{sa}-\,s+1\right)} \sum_{j^{sa}+s-j_{sa}}^{}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{(n_i\quad 1)} \sum_{\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{}$$

$$\sum_{\Bbbk_3-j^{sa}+1}^{n_{ik}+j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{{}_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{(l_{ik} - j_{ik} - l_s + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+l_s+s-n-l_i} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}}^{-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\ldots}^{(\quad)}{}_{s=n_{sa}+j^{sa}-j_i}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} \ldots - \Bbbk_2 \ldots - 2 \cdot j_{sa}^s)!}{(n_i - n - \Bbbk_1 - \Bbbk_2 \ldots)!} \cdot$$

$$\frac{1}{(n + 2 \ldots + j_{sa}^{ik} \ldots - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!}$$

$D \geq n < n \wedge l_s \ldots D - n + 1 \wedge$

$1 \ldots j_s \leq j_{ik} \ldots j_{sa}^{ik} + 1 \ldots j_i + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j \ldots \leq j_i + \ldots \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$

$l_{ik} - j_s \ldots + 1 > l_s \wedge l_{sa} \ldots j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + j_{sa} - n \ldots l_{sa} \leq D \ldots l_s + j_{sa} - n - 1 \wedge$

$D \ldots n \ldots a \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - \ldots \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$

$s: (j_{sa} \ldots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge s = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$D > \boldsymbol{n} < n$$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_{sa}}+\boldsymbol{n}+s-D-}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-\ )}^{(n_{ik}+j_{ik}-j^{sa}\ )} \sum_{n_s=\boldsymbol{n}-j_i+}^{+j^s\ j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(\ -\ +\ -j_s+1)!}\cdot$$

$$\frac{-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\,(\ n_{is}+j_s-\ n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-\ _{ik}-1)!\,(\ n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\ _a-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{()} \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_{sa}}+s-k-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s-j_i+1}^{n_{sa}+j^{sa}-j_i-}$$

$$\frac{(n_i - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \Bbbk_2)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_il}^{} \sum_{(j_s=1)}^{()}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\,_il+1} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{()} \sum_{j_i=\boldsymbol{l_{sa}}+\boldsymbol{n}+s-D-j_{sa}}^{\boldsymbol{l_{sa}}+s-\,_il-j_{sa}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-2)!\cdot(n_i-n_{ik}-j_{ik}-\Bbbk_1+1)} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-\Bbbk_1-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-l_s-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}+1)!\cdot(j_{ik}-j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}+\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+j_{sa}-j_{sa}^{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ )} \sum_{j_i=\boldsymbol{l_{sa}}+\boldsymbol{n}+s-D-j_{sa}}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^{s})!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} \ }$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s = \boldsymbol{l_{sa}} \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j^{ik} - 1 \wedge$

$\boldsymbol{s} : \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \quad \Rightarrow$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(j_{ik} - j_{sa}^{ik} + 1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i -\;)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\;-k - 1\;)}{(\boldsymbol{l_s} - \; - k + \;-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{s} + 1)!}{(j_s + \boldsymbol{l_{ik}} - \;)! \cdot (j_{ik} - \; - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\; + j_{sa}^{ik}\; \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} \; \boldsymbol{l_{ik}})! \cdot (\; + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + \; - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_il - 1} \sum_{(j_s=2)}^{(l_s - k + 1)}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{{}_{ik} - k + 1} \sum_{(j^{sa} = \boldsymbol{l_s} + j_{sa} - k + 1)}^{(l_{sa} - k + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1}^{n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s \quad)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s \quad_{sa}^{ik} + 1)!}$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \quad)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (\quad_{sa} + j_{sa}^{ik} - j_{ik} \quad_{sa})!} \cdot$$

$$\frac{(D \quad \boldsymbol{l_i})!}{(\quad + j \quad \boldsymbol{n} - \boldsymbol{l_{ik}}) \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k = \, _il} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{\boldsymbol{l_{ik}} - \, _il + 1} \sum_{(j^{sa} = \boldsymbol{l_{sa}} + \boldsymbol{n} - D)}^{(\quad_a - \, _il + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{\left(l_{ik} - j_{ik} - l_s + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{\left(j_{ik} + l_{sa} - j^{sa} - l_{ik}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=\;}^{D+l_s+s-\boldsymbol{n}-l_i} \sum_{(j_s = j_{ik} - j_{sa}^{ik}+1)}^{(\;)}$$

$$\sum_{j_{ik} = j^{sa} + j_s^{ik}}^{} \sum_{\;sa = l_{sa}+\boldsymbol{n}-\;}^{(l_{\;\;}-k)} \sum_{\;i = j^{sa}+s-j_{sa}}^{}$$

$$\sum_{n_i = \boldsymbol{n}+\Bbbk}^{(\;\;+1)} \sum_{\;\;\boldsymbol{n}+\Bbbk-j_s}^{} \sum_{\;ik = n_{is}+j_s-j_{ik}-\Bbbk_1}^{}$$

$$\sum_{(\;\;\;\;+j\;\;-\Bbbk_2)}^{(\;)} \sum_{n_s = n_{sa}+j^{sa}-j_i-\Bbbk_3}^{}$$

$$\frac{(\;_i + 2 \cdot j_s + \;\; - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(\;\;-\boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - \boldsymbol{n} - l_i)! \cdot (\boldsymbol{n} - j_i)!}$$

$D \;\; \boldsymbol{n} \;\; \wedge l_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j\; - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$

$D + j_{sa} - \boldsymbol{n} < l_{sa} \leq D + l_s + j_{sa} - \boldsymbol{n} - 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \cdots, \mathbb{k}_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z : z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}}
$$

$$
\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}-1} \sum_{(j^{sa}=\boldsymbol{l} \quad \boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-\boldsymbol{l})} \sum_{j_i=j^{sa}+s}
$$

$$
\sum_{n_i=\boldsymbol{n}}^{n} \sum_{(n_{is}=\boldsymbol{n}+\boldsymbol{l} +1)} \sum_{n_{ik}=\boldsymbol{n}}^{+j_s-j_{ik}-\mathbb{k}_1} \quad j_{ik}+1
$$

$$
\sum_{(n_{sa}=\boldsymbol{n} \quad 3 - j^{sa}+1)}^{ik+j_{ik}-j \quad \mathbb{k}_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\mathbb{k}_3}
$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{\left(\boldsymbol{l_{sa}}-k+1\right)} \sum_{j_i \ldots sa+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{\left(n_{is}=\boldsymbol{n}+\Bbbk-j_s\right)}^{\left(n_i-j_s+1\right)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3 \ldots +1}^{n_{is}+j_s-\ldots-\Bbbk_1}$$

$$\sum_{\left(n_{sa}-\ldots\Bbbk_3-j^{sa}+\ldots\right)}^{\left(n_{ik}+j_{ik}-j^{sa}-\ldots\right)} \sum^{n_{sa}+j^{sa}-j_i-\Bbbk\ldots}_{j_i+1}$$

$$\frac{(\ldots - n_{is} - 1)!}{(j_s - 2)! \cdot (\ldots - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - n - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(\ldots - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i l-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=l_s+j_{sa}^{ik}-k+1}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-\ldots 1)}^{(n_{ik}+j_{ik}-j^{sa}\ldots)} \sum_{n_s=\boldsymbol{n}-j_i+}^{+j^s\ldots j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}\ldots 1)!}{(j_s\ldots 2)!\cdot(n_i\ldots j_s+1)!}\cdot$$

$$\frac{\ldots-n_{ik}\ldots \Bbbk_1-1)!}{(j_{ik}-j_s-1)!\ldots n_{is}+j_s\ldots n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}\ldots n_{sa}-1)!}{(j^{sa}\ldots j_{ik}-1)!\ldots n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\ldots a-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(l_{ik}-l_s-j_{sa}^{ik}+1)!}{(j_s+l_{ik}-j_{ik}-l_s)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k={}_i l}^{(\ )} \sum_{(j_s=1)}^{(\ )}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\,_i l+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(l_{sa}-\,_i l+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik})}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\ldots j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk\ldots)}$$

$$\frac{(n_i - n_{ik} - \ldots 1)!}{(j_{ik}-2)! \cdot (n_i - \ldots_{ik} - j_{ik} - \ldots 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} \ldots 1)!}{(j^{sa}-j_{ik} \ldots + j_{ik} \ldots_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - \ldots \Bbbk_3 - 1 \ldots)!}{(j_i - j^{sa} - \ldots) \cdot (n_{sa} \ldots^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s \ldots j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\ldots_{ik} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(\ldots + \ldots - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{\left(j_s=j_{ik}-j_{sa}^{ik}+1\right)}^{(\ \ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{sa}}+\boldsymbol{n}+j_{sa}^{ik}-D-j_{sa}}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ \ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{s\ldots}\right.}$$

$$\frac{(\boldsymbol{l_s} - k -)!}{(\boldsymbol{l_s} - j_s - k + 1)!\,(\ldots j_s - 2)!}$$

$$\frac{(D - \ldots)}{(D + j_i \ldots \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} \ldots j_i)!}$$

$D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j \ldots + j_{sa}^{ik} - \ldots \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \ldots \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \ldots \boldsymbol{l_i} + j_{sa} - s = \ldots_a \wedge$

$D + j_{sa} - \boldsymbol{n} < \boldsymbol{l_{sa}} \leq D + \boldsymbol{l_s} \ldots_{sa} \ldots 1 \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{s\ldots} < j_{sa}^{ik} - 1$

$\boldsymbol{s}: \{j_{sa}^s \ldots \cdot, \Bbbk_{\ldots}, j_{sa}^{ik}, \Bbbk_2 \ldots_a, \cdots, \Bbbk_3, j_{sa}^i\} \ldots$

$\boldsymbol{s} \geq 6 \wedge \boldsymbol{s} = s \ldots k \wedge$

$\Bbbk_z: \ldots = 3 \wedge \Bbbk = \Bbbk_1 \ldots \Bbbk_2 + \Bbbk_3$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_{sa}}+\boldsymbol{n}-D-j_{sa})}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n - j^{sa})!}$$

$$\frac{(n_{sa} - n - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + sa - n_s - j_i - sa)!} \cdot$$

$$\frac{(n_s - 1)!}{(n + j - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - - j_{sa}^{ik} + 1)!}{(j_s + - j_{ik} -)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{k} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=\boldsymbol{l_{sa}}+\boldsymbol{n}-D-j_{sa}+1)}^{(\boldsymbol{l_s}-k-1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \dots)!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - \dots_i - \Bbbk_3)!} \cdot$$

$$\frac{\dots - 1)!}{(n_s + \dots - \boldsymbol{n} - \dots - j_i)!} \cdot$$

$$\frac{(\dots k - 1)!}{\dots_s - k \dots)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} \dots - j_{sa}^{ik} \dots)!}{(j_s + \boldsymbol{l_{ik}} \dots - \boldsymbol{l_s}) \dots (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{s\dots} - \boldsymbol{l_{ik}} - _{sa})!}{(j_{ik} + \boldsymbol{l_{s\dots}} - j^{sa} - \boldsymbol{l_{ik}}) \dots (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k= \,_i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{l_{ik}- \,_i\boldsymbol{l}+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(l_{sa}- \,_i\boldsymbol{l}+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} \cdots}$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} \cdots 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \cdots - j_{sa}^{ik})!}$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \cdots \right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdots + j_{sa}^{ik} - \cdots)!} \cdot$$

$$\frac{(D \cdots \boldsymbol{l})!}{\cdots + j \cdots \boldsymbol{n} - \boldsymbol{l_i} \cdots (\boldsymbol{n} - j_i)!}$$

$$\sum_{\cdots = 1}^{D + \boldsymbol{l_s} + \cdots - \boldsymbol{l_i}} \sum_{(\cdots \boldsymbol{l_{sa}} + \boldsymbol{n} - D - j_{sa} + 1)}^{(\cdots}$$

$$\sum_{\cdots = j_s + j_{sa}} \sum_{\cdots = j_{ik} + j_{sa} - j_{sa}^{ik})} \sum_{j_i = j^{sa} + s - j_{sa}}$$

$$\sum_{\cdots_i = \boldsymbol{n} + \Bbbk}^{\boldsymbol{n}} \sum_{(n_{is} = \boldsymbol{n} + \Bbbk - j_s + 1)}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}$$

$$\sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{(\cdot)} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\left((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge\right.$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}) \vee$$

$$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l_i} - s + 1 > \boldsymbol{l_s} \wedge$$

$$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})) \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i\}$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(j_i+j_{sa}-s)} \sum_{j_i=s+1}^{l_s+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s \cdots)} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s \cdots {}_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} \cdots)}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdots {}_{sa} + j_{sa}^{ik} - {}_{ik} \cdots {}_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l} + j_{sa} - \boldsymbol{l_{sa}} \cdots s)!}{(j^{sa} + \boldsymbol{l_i} - \cdots {}_{sa} \cdots (j_i + j_s \cdots j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i \cdots - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=\boldsymbol{l_s}+s-k+1}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + \right)} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - - j_{sa}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}})!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}) \cdot (j_i + j_{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{+ j - \boldsymbol{n} - l_{ik}) \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\sum_{k = {}_i l} \sum_{(j_s = 1)}^{(\quad)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{\boldsymbol{l_{ik}} - {}_i l + 1} \sum_{(j^{sa} = j_{sa})}^{\left(\boldsymbol{l_{sa}} - {}_i l + 1\right)} \sum_{j_i = s}^{\boldsymbol{l_i} - {}_i l + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}\right)! \cdot \left(j_i + j_{sa} - j^{sa} - \right)!}$$

$$\frac{(D - \boldsymbol{l_i})}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdots \boldsymbol{n} - j_i)!}$$

$$\sum^{i^l} \sum_{(j_s = j_{ik} - j_{sa}^{ik} +)}$$

$$\sum_{j_{ik}}^{(\ )} \sum_{a + j_{sa}^{ik} - j_s}^{} \sum_{sa = j_i + j_{sa} - s)}^{l_s + s - k} \sum_{j_i = s+1}^{}$$

$$\sum_{n}^{n} \sum_{k \, (n_{is} = \boldsymbol{n} + j_s + 1)}^{(\ -j_s + 1)} \sum_{n_{ik} = n_{is} + j_s - j_{ik} - \Bbbk_1}^{}$$

$$\sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2)}^{} \sum_{n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3}^{}$$

$$\frac{\left(n_i + 2 \quad + \quad a - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{\left(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3\right)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_s} - k - 1\right)!}{\left(\boldsymbol{l_s} - j_s - k + 1\right)! \cdot \left(j_s - 2\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k = \, _i\boldsymbol{l}}^{(\ )} \sum_{(j_s = 1)}^{}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{} \sum_{(j^{sa} = j_{sa})}^{(\ )} \sum_{j_i = s}^{}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{(\quad)}\sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{(\quad)}\sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk)}$$

$$\frac{\left(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\Bbbk_2-\Bbbk_3-2\cdot j_{sa}^s\right)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\Bbbk_2-\Bbbk_3)!\cdot\left(\boldsymbol{n}+2\cdot j_s+j_{sa}^{ik}-j_{ik}-\quad-2\cdot j_{sa}^s\right)}\cdot$$

$$\frac{(D-\boldsymbol{l_i})}{(D+s-\quad)!\cdot(\quad-s)!}$$

$$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_i}\leq D+s-\boldsymbol{n}\wedge$$

$$1\leq j_s\leq j_{ik}-j_{sa}^{ik}+1\wedge j_s+j_{sa}^{ik}-1\leq j_{ik}\leq j^{sa}+\quad\wedge$$

$$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq j_i+j_{sa}-s\wedge j^{sa}+s-\quad\leq j_i\leq\quad\wedge$$

$$\boldsymbol{l_{ik}}-j_{sa}^{ik}+1>\boldsymbol{l_s}\wedge\boldsymbol{l_{sa}}+j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-\quad>\boldsymbol{l_{sa}}\big)$$

$$(D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\boldsymbol{n}+1\wedge$$

$$1\leq j_s\leq j_{ik}-j_{sa}^{ik}+1\wedge j_s+\quad-\quad\leq j\quad+j_{sa}^{ik}-\quad\wedge$$

$$j_{ik}+j_{sa}-j_{sa}^{ik}\leq j^{sa}\leq j_i+\quad-s\wedge j^{sa}+\quad-j_{sa}\leq j_i\leq\boldsymbol{n}\wedge$$

$$\boldsymbol{l_i}-s+1>\boldsymbol{l_s}\wedge$$

$$\boldsymbol{l_i}\leq\quad+s-\boldsymbol{n})\big)\wedge$$

$$D\geq\boldsymbol{n}<n\wedge\quad\Bbbk>0\wedge$$

$$j_{sa}\quad\quad-1\wedge j_{sa}^{ik}=\quad-1\wedge j_{sa}<j_{sa}^{ik}-1\wedge$$

$$\quad\{j_{sa}^s,\cdots,\quad,j_{sa}^{ik},\Bbbk_2,j_s\quad\cdots,\Bbbk_3,j_{sa}^i\}\wedge$$

$$s\geq\quad\quad s=s+\quad$$

$$\Bbbk_z:z=3\quad\quad=\Bbbk_1+\Bbbk_2+\Bbbk_3\Rightarrow$$

$$_{fz}S_{j_s,j_{ik},j^{sa},j_i}=\sum_{k=1}^{_il-1}\sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_s}+j_{sa}-k)}\sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)! \cdot (n_i-n_{is}-j_s+1)!} \cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)! \cdot (n_{is}+j_s-j_{ik}-\Bbbk_1)!} \cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-n_s-1)!}{(j_i-j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})! \cdot (j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})! \cdot (\boldsymbol{n}-j_i)!} +$$

$$\sum_{k=1}^{\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=\boldsymbol{l_s}+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}) \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _il} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{\boldsymbol{l_{ik}} - \ _il+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{\left(\boldsymbol{l_{sa}} - \ _il+1\right)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i} - \ _il+1}$$

$$D > \boldsymbol{n} < n$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik}-2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - j_i - \boldsymbol{n} + \ldots)!}{(n_s + j_i - \boldsymbol{n} - \ldots - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \ldots - j_{sa}^{ik} + 1\right)!}{\left(\boldsymbol{l_{ik}} - \ldots - \boldsymbol{l_s} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \ldots - j \ldots\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s = j_{ik} - j_{sa}^{ik} + 1)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_{sa}+1)}^{(\boldsymbol{l_s}+j_{sa}-k)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - \quad)} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k = {}_i l}^{()} {}^{(j_s)}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{()} {}^{(j^{sa} - j_{sa})} \sum_{j_i = s}$$

$$\sum_{= \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = n_i - j_{ik} - \Bbbk_1 + 1)}^{()}$$

$$\sum_{sa = n_{ik} + j_{ik} - j^{sa} - \Bbbk_2}^{} \sum_{(n_s = n_{sa} + j^{sa} - j_i - \Bbbk_3)}^{()}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot (\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + s - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - s)!}$$

$$(D \geq \boldsymbol{n} \quad n \wedge \boldsymbol{l}_i \leq D \quad s - \boldsymbol{n} \wedge$$

$$1 \leq j \quad j_{ik} - j_{s} \quad \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - {}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$- j^{ik} \quad 1 > \boldsymbol{l}_s \wedge \boldsymbol{l}_{sa} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l}_{ik} \wedge \boldsymbol{l}_i + j_{sa} - s > \boldsymbol{l}_{sa}) \vee$$

$$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l}_s \leq D - \boldsymbol{n} + 1 \wedge$$

$$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$$

$$\boldsymbol{l}_i - s + 1 > \boldsymbol{l}_s \wedge$$

$$l_i \leq D + s - \boldsymbol{n})) \wedge$$

$$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$$

$$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\boldsymbol{s}: \left\{ j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^i \right\} \wedge$$

$$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$$

$$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$$

$$_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_il - 1} \sum_{(j_s}^{(j \quad j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik} - j_{sa}^{ik}+1}^{l_s + j_{sa}^{ik}-l} \sum_{(j^{sa} + j_{sa} - j_{sa})}^{(l_{sa}-k+1)} \sum_{s - j_{sa}}^{l_i - k + 1}$$

$$\sum_{=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk \quad +1)}^{(\quad -j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+\quad -j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{\left(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}\right)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} \cdot$$

$$\sum_{k=1} \sum_{i_s=2}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=l_s+j_{sa}^{ik}-k}^{l_{ik}-k+1} \sum_{=j_{ik}+j_{sa}-j}^{(l_s-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk\ (n}^{} \sum_{(n_i+1)}^{} \sum_{k=n+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{-\Bbbk_1}$$

$$\sum_{(n_{sa}=\ \Bbbk_3-j^{sa}+1)}^{(n_{ik}\ -j^{sa}-\Bbbk_2)} \sum_{n_s=n-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(\ -j_s-1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{\left(l_{ik} - l_s - j_{sa}^{ik} + 1\right)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot \left(j_{ik} - j_s - j_{sa}^{ik} + 1\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}\right)! \cdot \left(j_i + j_{sa} - j^{sa} - s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!}$$

$$\sum_{k=} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{s}}^{\boldsymbol{l_{ik}} - {}_i\boldsymbol{l}+1} \sum_{+j_{sa}-j_{sa}^{}}^{\left(\boldsymbol{l_{sa}} + 1\right)} \sum_{=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i} -}$$

$$\sum_{j_i=\boldsymbol{n}+\Bbbk}^{(+ 1)} \sum_{(<\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1)}^{}$$

$$\sum_{\Bbbk_3 - j^{sa} + 1}^{n_{ik}+j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{(n_{sa}+j^{sa}-j_i-\Bbbk_3)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{{}_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{\left(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1\right)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{\left(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}}\right)! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s\right)!}{\left(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}}\right)! \cdot \left(j_i + j_{sa} - j^{sa} - s\right)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} -$$

$$\sum_{k=1}^{il-1} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}+1}^{l_s+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i}^{a+s-j_{sa}}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{i}-\Bbbk_1}$$

$$\sum_{=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{(\ )} \sum_{n_s}^{j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^{s})!}{(n_i - n - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(+2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^{s})!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)! \cdot (n-j_i)!} -$$

$$\sum_{k={}_il}^{} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=j_{sa}^{ik}}^{} \sum_{(j^{sa}=j_{sa})}^{(\ )} \sum_{j_i=s}^{}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{ik}=n_i-j_{ik}-\Bbbk_1+1)}^{(\ )}$$

$$\sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}^{} \sum_{(n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3)}^{(\ )}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)! \cdot \left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s\right)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + s - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - s)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_i} \leq D + s - \boldsymbol{n} \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa}^{ik} - j_{sa} > \boldsymbol{l_{ik}} \wedge \boldsymbol{l_i} + j_{sa} - s > \boldsymbol{l_{sa}}\big) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_i} - s + 1 > \boldsymbol{l_s} \wedge$

$\boldsymbol{l_i} \leq D + s - \boldsymbol{n})\big) \wedge$

$D \geq \boldsymbol{n} < n \wedge I = \Bbbk > 0 \wedge$

$j_{sa} < j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} \qquad \wedge j_{sa}^s < j_{sa}^{ik} \qquad \wedge$

$\boldsymbol{s}: \{j_{sa}^s, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, \qquad\} \wedge$

$s \geq 6 \qquad \boldsymbol{s} = s + \Bbbk$

$\Bbbk \quad z = 3 \wedge \Bbbk \qquad \Bbbk_1 + \Bbbk_2 \quad \Bbbk_3 \Rightarrow$

$${}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-j_{sa}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j)!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(\qquad - 1)!}{(n_s + \quad - \boldsymbol{n} - 1) \qquad - j_i)!} \cdot$$

$$\frac{(\qquad k - 1)!}{(\quad j_s - k \quad)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} \quad - j_{sa}^{ik} \quad)!}{(j_s + \boldsymbol{l_{ik}} \quad - \boldsymbol{l_s}) \quad (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_s \quad - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_s} \quad - j^{sa} - \boldsymbol{l_{ik}}) \quad (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\quad l_{sa} - \boldsymbol{l_{sa}} - s)!}{(j \quad + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k = {}_il}^{} \sum_{(j_s = 1)}^{(\ )}$$

$$\sum_{j_{ik} = j_{sa}^{ik}}^{l_{ik} - {}_il + 1} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(l_{sa} - {}_il + 1)} \sum_{j_i = j^{sa} + s - j_{sa}}^{l_i - {}_il + 1}$$

$$\sum_{n_i = \boldsymbol{n} + \Bbbk}^{n} \sum_{(n_{ik} = \boldsymbol{n} + \Bbbk_2 + \Bbbk_3 - j_{ik} + 1)}^{(n_i - j_{ik} - \Bbbk_1 + 1)}$$

$$\sum_{n_{sa} = \boldsymbol{n} + \Bbbk_3 - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \Bbbk_2} \sum_{(n_s = \boldsymbol{n} - j_i + 1)}^{(n_{sa} + j^{sa} - j_i - \Bbbk_3)}$$

$D > \boldsymbol{n} < n$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \ldots)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_{ik} - \ldots^{ik} + \ldots)!}{(\boldsymbol{l}_{ik} - j_{ik} - \boldsymbol{l}_s + 1)! \cdot (\ldots - j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l}_{sa} + j_{sa}^{ik} - \boldsymbol{l}_{ik} - \ldots)!}{(j_{ik} + \boldsymbol{l}_{sa} - j^{sa} - \ldots)! \cdot (\ldots_{sa} + j_{sa} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l}_i + j_s - \boldsymbol{l}_{sa} - s)!}{(j^{sa} + \boldsymbol{l}_i - \ldots - \boldsymbol{l}_{sa})! \cdot (\ldots_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l}_i)!}{(D + \ldots - \boldsymbol{n} - \boldsymbol{l}_i)! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l}_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ \ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ \ )} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk_3}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_{sa}^s)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} -$$

$$\sum_{k=\ _il}^{(\ )} \sum_{(j_s=}^{}$$

$$\sum_{j_{ik}=j_{sa}}^{} \sum_{sa=j_s}^{} \sum_{j_i=s}^{}$$

$$\sum_{\mathbb{k}\ (n_{ik}}^{} \sum_{}^{(\ )}{}_{j_{ik}-\mathbb{k}_1+1)}$$

$$\sum_{n_{sa}=n_{ik}+}^{}{}_{j^{sa}-\mathbb{k}_2} \sum_{}^{}{}_{n_{sa}+j^{sa}-j_i-\mathbb{k}_3)}$$

$$\frac{(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_i - \mathbb{k}_1 - {}_2 - \mathbb{k}_3 - 2 \cdot j_{sa}^s)!}{(n_i - n - {}_{k_2} - {}_{k_3})! \cdot ({}_i + 2 \cdot j_s + {}_{sa}^{ik} - j_{ik} - j_i - 2 \cdot j_{sa}^s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$\big((D \geq n < n \wedge l_s \quad D - n + 1 \wedge$

$1 \quad j_s \leq j_{ik} \quad {}^{ik} + 1 \wedge {} + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} \quad j_{sa} - j_{sa}^{ik} \leq j \quad \leq j_i + j_s \quad \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$

$l_{ik} - j_{sa} \quad 1 > l_s \wedge l_{sa} \quad j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$

$D + s - n < \quad \leq D \quad {}_s + s - n - 1) \vee$

$(\quad n \quad {}_{sa} \wedge l_s \leq D - n + 1 \wedge$

$1 \leq j_s \leq j \quad - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq n \wedge$

$l_i - s + 1 > l_s \wedge$

$D + s - n < l_i \leq D + l_s + s - n - 1)\big) \wedge$

$D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$

$\qquad D > \boldsymbol{n} < n$

$j_{sa} < j_{sa}^{i} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{ j_{sa}^{s}, \cdots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \cdots, \mathbb{k}_3, j_{sa}^{i} \right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \mathbb{k} \wedge$

$\mathbb{k}_z : z = 3 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 + \mathbb{k}_3 \Rightarrow$

$$
{}_{fz}S_{j_s, j_{ik}, j^{sa}, j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s = 2)}^{(j_{ik} - j_{sa}^{ik})} \sum_{j_{ik} = \boldsymbol{l_{ik}} + \boldsymbol{n} - D}^{j^{sa} + j_{sa}^{ik} - j_{sa}} \sum_{(j^{s} \cdots + \boldsymbol{n} - D)}^{(j_{i} \cdots s)} \sum_{j_i = \boldsymbol{l_i} + \cdots}^{\cdots s - k}
$$

$$
\sum_{n_i = n}^{n} \sum_{(n_{is} = \boldsymbol{n} + \cdots + 1)}^{(\cdots + 1)} \sum_{n_{ik} = \boldsymbol{n} \cdots}^{\cdots + j_s - j_{ik} - \mathbb{k}_1} \sum_{j_{ik} + 1}
$$

$$
\sum_{(n_{sa} = \boldsymbol{n} \cdots_3 - j^{sa} + 1)}^{\cdots k + j_{ik} - j \cdots \mathbb{k}_2)} \sum_{n_s = \boldsymbol{n} - j_i + 1}^{n_{sa} + j^{sa} - j_i - \mathbb{k}_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(\cdots_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} \cdots_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \mathbb{k}_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \mathbb{k}_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \mathbb{k}_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{l-1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=l_{ik}+n-D}^{l_{ik}-k+1} \sum_{(j^{sa}=l_{sa}+n)}^{(l_{sa}-k+1)} \sum^{-k+1}_{-l_s-k+1}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is})}^{(n_i-j_s+1)} \sum_{n_{ik}=n}^{n_{is}+j_s-j_{ik}-1}{}_{+\Bbbk_3-j_{ik}+1}$$

$$\sum^{(n_{ik} -j^{sa}-\Bbbk_2)}_{(n+\Bbbk_3-j)} \sum_{n_s=n-j_i+1}^{-j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{is} - 1)!}{(j_s -)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot$$

$$\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!} \cdot$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$D > \boldsymbol{n} < n$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\ _i\boldsymbol{l}+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{sa}}-\ _i\boldsymbol{l}+1\right)} \sum_{=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-\ _i\boldsymbol{l}+}$$

$$\sum_{n_i=\boldsymbol{n}+}^{n} \sum_{ik=\boldsymbol{n}+\Bbbk_2+\Bbbk_3-\ \ 1)}^{(n_i-j_{ik}-\ \ +1)}$$

$$\sum_{+j_{ik}-j^{sa}-\Bbbk_2}^{sa+j^{sa}-j_i-\Bbbk_3)} \quad$$

$$\sum_{n_{sa}=\ \ sa-j^{sa}+1}^{\ \ \ \ \ \ i+1)}$$

$$\frac{(n_i - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \Bbbk_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - ik - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - sa - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1\right)!}{(\boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s} + 1)! \cdot \left(j_{ik} - j_{sa}^{ik}\right)!} \cdot$$

$$\frac{\left(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa}\right)!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot \left(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa}\right)!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} -$$

$$\sum_{k=1}^{D + \boldsymbol{l_s} + s - \boldsymbol{n} - \boldsymbol{l_i}} \sum_{\left(j_s = j_{ik} - j_{sa}^{ik} + 1\right)}^{(\ )}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=j_i+j_{sa}-s)}^{(\ \ )} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_s}+s-k}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}}^{n}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\ \ )} \sum_{n_s=n_{sa}-\ -j_i-\Bbbk_3}$$

$$\frac{(n_i+2\cdot j_s+j_{sa}^{ik}-j_{ik}-j_i-\Bbbk_1-\ -\Bbbk_2-\ \cdot j_{sa}^s)!}{(n_i-\boldsymbol{n}-\Bbbk_1-\ -\Bbbk_3)!}\cdot$$

$$\frac{}{(\boldsymbol{n}+\ ^{ik}-j_{ik}\ -2\cdot j_{sa}^s)!}$$

$$\frac{(\boldsymbol{l_s}-k\ }{(\boldsymbol{l_s}-j\ k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(\ -\boldsymbol{l_i})!}{(D\ j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}$$

$\big((D\geq\boldsymbol{n}<n\wedge\boldsymbol{l_s}\leq D-\ \ \ 1\wedge$

$1\leq j_s\leq j_{ik}-j_{sa}^{ik}+1\wedge j_s+\ ^{ik}-1\leq j_{ik}\leq\ ^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}+j_{sa}-j_{sa}^{ik}\leq\ ^{a}\leq j_i+j_{sa}-\ j^{sa}+\ -j_{sa}\leq j_i\leq\boldsymbol{n}\wedge$

$\boldsymbol{l_i}-j_{sa}^{ik}+\ \ \boldsymbol{l_s}\wedge\boldsymbol{l_{s}}\ j_{sa}^{ik}-j_{sa}>\boldsymbol{l_{ik}}\wedge\boldsymbol{l_i}+j_{sa}-s>\boldsymbol{l_{sa}}\wedge$

$D+s-\boldsymbol{n}<\boldsymbol{l_i}\leq\ \ +\boldsymbol{l_s}+\ -\boldsymbol{n}\ 1)\vee$

$(D\geq\ \ <n\wedge\boldsymbol{l_s}\leq D\ \boldsymbol{n}+1\wedge$

$1\leq j_s\leq j_{ik}\ j_{sa}^{ik}+1\ \ s+j^{ik}-1\leq j_{ik}\leq j^{sa}+j_{sa}^{ik}-j_{sa}\wedge$

$j_{ik}\ \ \ \ j_{sa}^{ik}\leq j^{sa}\leq j_i+j_{sa}-s\wedge j^{sa}+s-j_{sa}\leq j_i\leq\boldsymbol{n}\wedge$

$\boldsymbol{l_i}-s+1\ \ \boldsymbol{l_s}\wedge$

$\ \ \ \boldsymbol{n}<\boldsymbol{l_i}\leq D+\boldsymbol{l_s}+s-\boldsymbol{n}-1))\wedge$

$D\geq\boldsymbol{n}<n\wedge I=\Bbbk>0\wedge$

$j_{sa}<j_{sa}^i-1\wedge j_{sa}^{ik}=j_{sa}-1\wedge j_{sa}^s<j_{sa}^{ik}-1\wedge$

$\boldsymbol{s}{:}\left\{j_{sa}^s,\cdots,\Bbbk_1,j_{sa}^{ik},\Bbbk_2,j_{sa},\cdots,\Bbbk_3,j_{sa}^i\right\}\wedge$

$D > \boldsymbol{n} < n$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z : z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
{}_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_i l - 1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}
$$

$$
\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}-D-s-1)} \sum_{\boldsymbol{l_i}+\boldsymbol{n}-D}^{\boldsymbol{l_i}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+\ldots)}^{(n_i-j_s+1)} \sum^{\ldots+j_s-\ldots-\Bbbk_1}
$$

$$
\sum_{(n_{sa}=\ldots-j^{sa}+1)}^{\ldots-j^{sa}-\Bbbk_2} \sum^{\ldots+j^{sa}-j_i-\Bbbk_3}_{\ldots j_i+1}
$$

$$
\frac{(n_{\ldots}-n_{is}-1)!}{(j_s-2)! \cdot (n_{\ldots}-n_{is}-j_s+1)!} \cdot
$$

$$
\frac{(n_{is}-n_{\ldots}-\Bbbk_1-1)!}{\ldots-j_s-\ldots)! \cdot (\ldots+j_s-n_{ik}-j_{ik}-\Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik}-n_{sa}-1)!}{(j^s-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot
$$

$$
\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(\ldots-j^{sa}-1)! \cdot (n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot
$$

$$
\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)! \cdot (\boldsymbol{n}-j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)! \cdot (j_s-2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})! \cdot (j_{ik}-j_s-j_{sa}^{ik}+1)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})! \cdot (j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})! \cdot (j_i+j_{sa}-j^{sa}-s)!} \cdot
$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}$$

$$\sum_{j_{ik}=l_{ik}+n-D}^{j^{sa}+j_{sa}^{ik}-j_{sa}} \sum_{(j^{sa}=l_i+n+j_{sa}-D-s)}^{(l_s+j_{sa}-k)} \sum_{j_i^{sa}+s-j_{sa}}^{l_i-k+1}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s)}^{(n_i-j_s+1)} \sum_{n_{ik}=n+\Bbbk_2+\dots+1}^{n_{is}+j_s-\dots-\Bbbk_1}$$

$$\sum_{(n_{sa}+\Bbbk_3-j\dots)}^{(n_{ik}+j_{ik}-j^{sa}\dots} \sum_{\dots-j_i+1}^{n_{sa}+j^{sa}-j_i-\Bbbk\dots}$$

$$\frac{\dots - n_{is} - 1)!}{(\dots - 2)! \cdot (\dots - n_{is} - j_s + 1)!}$$

$$\frac{(n_{is} - \dots - \Bbbk_1 - 1)!}{(j_{ik} - j\dots - 1)! \cdot (n\dots + j_s - n_{ik} - j_{ik} - \Bbbk_1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j\dots - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{\dots j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!}$$

$$\frac{(n_s - 1)!}{(n_s + j_i - n - 1)! \cdot (n - j_i)!}$$

$$\frac{(l_s - k - 1)!}{(l_s - j_s - k + 1)! \cdot (j_s - 2)!}$$

$$\frac{(l_{ik} - l_s - j_{sa}^{ik} + 1)!}{(j_s + l_{ik} - j_{ik} - l_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}$$

$$\frac{(l_i + j_{sa} - l_{sa} - s)!}{(j^{sa} + l_i - j_i - l_{sa})! \cdot (j_i + j_{sa} - j^{sa} - s)!}$$

$$\frac{(D - l_i)!}{(D + j_i - n - l_i)! \cdot (n - j_i)!} +$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{(\boldsymbol{l}_s-k+1)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1} \sum_{(j^{sa}=\boldsymbol{l}_s+j_{sa}-k+1)}^{(\boldsymbol{l_{sa}}-k+1)} \sum_{j_i=j^{sa}+s-}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-}^{(n_{ik}+j_{ik}-j^{sa}\ldots} \sum_{n_s=\boldsymbol{n}-j_i+}^{\ldots+j^{\ldots}\ldots j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{\ldots} - 1)!}{(j_s - 2)! \cdot (\ldots n_{\ldots} - j_s + 1)!} \cdot$$

$$\frac{(\ldots - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l}_s - k - 1)!}{(\boldsymbol{l}_s - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l}_s - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l}_s)! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=\,_il}\sum_{(j_s=1)}^{(\;)}$$

$$\sum_{j_{ik}=l_{ik}+n-D}^{l_{ik}-\,_il+1}\sum_{(j^{sa}=l_{sa}+n-D)}^{\left(l_{sa}-\,_il+1\right)}\sum_{j_i=l_i+n}^{l_i-\,_il+1}$$

$$\sum_{n_i=n+\Bbbk}^{n}\sum_{(n_{ik}=n+\Bbbk_2+\ldots-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=n+\Bbbk_3-j^{s\ldots}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2}\sum_{(n_s=n-j_i+1)}^{\ldots j^{sa}-\Bbbk_3}$$

$$\frac{(\ldots-\Bbbk_1\ldots1)!}{(\ldots-2)!\cdot\ldots-n_{ik}\ldots+1)!}\cdot$$

$$\frac{(n_{ik}-\ldots-1)!}{(j^{sa}-j_{ik}-\ldots)!\cdot(n_{ik}+\ldots-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\ldots-\Bbbk_3-1)!}{(\ldots-j\ldots1)!\cdot(n\ldots+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!}\cdot$$

$$\frac{(l_{ik}-l_s-j_{sa}^{ik}+1)!}{(l_{ik}-j_{ik}-l_s+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}-$$

$$\sum_{k=1}^{D+l_s+s-n-l_i}\sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\;)}$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}\sum_{(j^{sa}=l_i+n+j_{sa}-D-s)}^{(l_s+j_{sa}-k)}\sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\;)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_i - j_{sa}^{s}\right)!}$$

$$\frac{- k - 1)!}{(l_s - j_s - 1)! \cdot (j_s - 2}$$

$$\frac{(D - 1)!}{(D - j_i - \boldsymbol{n} - l_{ik} - n - j_i)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge l_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \quad j^{sa} + j_{sa}^{ik} - j \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \quad - s \wedge \quad + s - \quad < j_i \quad \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{sa} - j_{sa} > \boldsymbol{l_{ik}} \wedge \quad + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \leq D + \boldsymbol{l_s} + s - \boldsymbol{n} - 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa} + 1 \wedge j_s \quad j_{sa}^{ik} - \quad \geq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + \quad - j_{sa}^{ik} \leq j^{sa} \quad j_i + j_{sa} - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_i} - s + 1 \quad \boldsymbol{l_s} \wedge$

$D + \quad \boldsymbol{n} < \boldsymbol{l_i} \leq \quad + \boldsymbol{l_s} + s - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \quad \boldsymbol{l} = \Bbbk > 0 \wedge$

$j \quad \quad 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i}\right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$
_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{_il-1} \sum_{(j_s=2)}^{(j_{ik}-j_{sa}^{ik}+1)}
$$

$$
\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s-1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(l_{sa}-k+1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{\boldsymbol{l_i}-k+1}
$$

$$
\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}
$$

$$
\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-\ldots\,1)}^{(n_{ik}+j_{ik}-j^{sa}\ldots)} \sum_{n_s=\boldsymbol{n}-j_i+\ldots}^{\ldots+j^{s}\ldots j_i-\Bbbk_3}
$$

$$
\frac{(n_i - n_{is} - 1)!}{(j_s - 2)! \cdot (n_i - n_{is} - j_s + 1)!} \cdot
$$

$$
\frac{(n_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot
$$

$$
\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
$$

$$
\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - j^{sa} - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot
$$

$$
\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot
$$

$$
\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot
$$

$$
\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot
$$

$$
\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot
$$

$$
\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +
$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=1}^{{}_i\boldsymbol{l}-1} \sum_{(j_s=2)}^{\left(j_{ik}-j_{sa}^{ik}+1\right)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{\left(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}\right)}^{\left(\boldsymbol{l_{sa}}-k+1\right)} \sum_{j_i=j^{sa}+s-}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{\left(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1\right)}^{\left(n_i-j_s+1\right)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{\left(n_{sa}=\boldsymbol{n}+\Bbbk_3-j\right)}^{\left(n_{ik}+j_{ik}-j^{sa}-\Bbbk_2\right)} \sum_{n_s=\boldsymbol{n}-j_i+1}^{+j^s\quad j_i-\Bbbk_3}$$

$$\frac{(n-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}+\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_s}-k-1)!}{(\boldsymbol{l_s}-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1\right)!}{(j_s+\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s})!\cdot\left(j_{ik}-j_s-j_{sa}^{ik}+1\right)!}\cdot$$

$$\frac{\left(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa}\right)!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot\left(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa}\right)!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}+$$

$$\sum_{k=1}^{_i l - 1} \sum_{(j_s=2)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=l_s+j_{sa}^{ik}-k+1}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-\ldots}^{l_i-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2 \ldots -j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-\ldots 1)}^{(n_{ik}+j_{ik}-j^{sa}\ldots)} \sum_{n_s=\boldsymbol{n}-j_i+\ldots}^{\ldots+j^{s}\ldots j_i-\Bbbk_3}$$

$$\frac{(n_i-n_{is}-1)!}{(j_s-2)!\cdot(n_i-n_{is}-j_s+1)!}\cdot$$

$$\frac{(n_{is}-n_{ik}-\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s-n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-j^{sa}-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(l_{ik}-l_s-j_{sa}^{ik}+1)!}{(j_s+l_{ik}-j_{ik}-l_s)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-\boldsymbol{n}-l_i)!\cdot(\boldsymbol{n}-j_i)!}+$$

$$D > \boldsymbol{n} < n$$

$$\sum_{k=\,_i l} \sum_{(j_s=1)}^{(\quad)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\,_i l+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-\,_i l+1)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{\boldsymbol{l_i}-\,_i l+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\quad-j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s\quad}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{\quad j^{sa}\quad-\Bbbk_3}$$

$$\frac{(\quad-\Bbbk_1\quad)!}{(\quad-2)!\cdot(\quad-n_{ik}\quad+1)!}\cdot$$

$$\frac{(n_{ik}-\quad-1)!}{(j^{sa}-j_{ik}-\quad)!\cdot(n_{ik}+\quad-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-\quad-\Bbbk_3-1)!}{(\quad-j^{\quad}\quad1)!\cdot(\quad+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!}\cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)!\cdot(j_{ik}-j_{sa}^{ik})!}\cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!}-$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=j_{ik}-j_{sa}^{ik}+1)}^{(\quad)}$$

$$\sum_{j_{ik}=\boldsymbol{l_i}+\boldsymbol{n}+j_{sa}^{ik}-D-s}^{\boldsymbol{l_s}+j_{sa}^{ik}-k} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\quad)} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2\cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!}\cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2\cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - j_{sa}^{s}\right)!}\cdot$$

$$\frac{- k - 1)!}{(l_s - j_s - 1)!\cdot(j_s -)}\cdot$$

$$\frac{(D -)!}{(D - j_i - \boldsymbol{n} - l_{ik} - \boldsymbol{n} - j_i)!}$$

$\big((D \geq \boldsymbol{n} < n \wedge l_s \leq D - \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j_{sa}^{ik} + 1 \wedge j_s + j_{sa}^{ik} - 1 \leq j_{ik} \quad j^{sa} + j_{sa}^{ik} - j \wedge$

$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_i + \quad - s \wedge j \quad + s - j \quad \leq j_i \leq \quad \wedge$

$\boldsymbol{l_{ik}} - j_{sa}^{ik} + 1 > \boldsymbol{l_s} \wedge \boldsymbol{l_{sa}} + j_{\quad} \quad j_{sa} > \boldsymbol{l_{ik}} \wedge \quad + j_{sa} - s > \boldsymbol{l_{sa}} \wedge$

$D + s - \boldsymbol{n} < \boldsymbol{l_i} \quad D + \boldsymbol{l_s} + s - \boldsymbol{n} \quad 1) \vee$

$(D \geq \boldsymbol{n} < n \wedge \boldsymbol{l_s} \leq D \quad \boldsymbol{n} + 1 \wedge$

$1 \leq j_s \leq j_{ik} - j \quad + 1 \wedge j_s \quad j_{sa}^{ik} - \quad \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$

$j_{ik} + \quad - j_{sa}^{ik} \leq j^{sa} \quad j_i + j_{sa} \quad - s \wedge j^{sa} + s - j_{sa} \leq j_i \leq \boldsymbol{n} \wedge$

$\boldsymbol{l_i} - s + 1 \quad \boldsymbol{l_s} \wedge$

$D + \quad \boldsymbol{n} < \boldsymbol{l_i} \leq \quad + \boldsymbol{l_s} + s - \boldsymbol{n} - 1)\big) \wedge$

$D \geq \boldsymbol{n} < n \quad l = \Bbbk > 0 \wedge$

$j \quad \quad 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{s} < j_{sa}^{ik} - 1 \wedge$

$\boldsymbol{s}: \left\{j_{sa}^{s}, \cdots, \Bbbk_1, j_{sa}^{ik}, \Bbbk_2, j_{sa}, \cdots, \Bbbk_3, j_{sa}^{i}\right\} \wedge$

$s \geq 6 \wedge \boldsymbol{s} = s + \Bbbk \wedge$

$\Bbbk_z: z = 3 \wedge \Bbbk = \Bbbk_1 + \Bbbk_2 + \Bbbk_3 \Rightarrow$

$$_{fz}S_{j_s,\,j_{ik},j^{sa},j_i} = \sum_{k=1}^{{}_il-1}\ \sum_{(j_s=2)}^{(l_i+\boldsymbol{n}-D-s)}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-k+1}\ \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{(\boldsymbol{l_{sa}}-k+1)}\ \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{\boldsymbol{l_i}-k+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n}\ \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)}\ \sum_{n_{ik}=\boldsymbol{n}+\Bbbk_2}^{n_{is}+j_s-j_{ik}-\Bbbk_1}{}_{3-j_{ik}+1}$$

$$\sum_{(n_{sa}=\boldsymbol{n}+\Bbbk_3-\,\,\,1)}^{(n_{ik}+j_{ik}-j^{sa}\,\,\,\,\,)}\ \sum_{n_s=\boldsymbol{n}-j_i+}^{\,\,\,\,\,\,a+j\,\,\,\,\,j_i-\Bbbk_3}$$

$$\frac{(n_i - n_{} - 1)!}{(j_s - 2)! \cdot (- n_{} - j_s + 1)!} \cdot$$

$$\frac{(\,_{is} - n_{ik} - \Bbbk_1 - 1)!}{(j_{ik} - j_s - 1)! \cdot (n_{is} + j_s - n_{ik} - j_{ik} - \Bbbk_1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - n_s - \Bbbk_3 - 1)!}{(j_i - a - 1)! \cdot (n_{sa} + j^{sa} - n_s - j_i - \Bbbk_3)!} \cdot$$

$$\frac{(n_s - 1)!}{(n_s + j_i - \boldsymbol{n} - 1)! \cdot (\boldsymbol{n} - j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_s} - k - 1)!}{(\boldsymbol{l_s} - j_s - k + 1)! \cdot (j_s - 2)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}} - \boldsymbol{l_s} - j_{sa}^{ik} + 1)!}{(j_s + \boldsymbol{l_{ik}} - j_{ik} - \boldsymbol{l_s})! \cdot (j_{ik} - j_s - j_{sa}^{ik} + 1)!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}} + j_{sa}^{ik} - \boldsymbol{l_{ik}} - j_{sa})!}{(j_{ik} + \boldsymbol{l_{sa}} - j^{sa} - \boldsymbol{l_{ik}})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i} + j_{sa} - \boldsymbol{l_{sa}} - s)!}{(j^{sa} + \boldsymbol{l_i} - j_i - \boldsymbol{l_{sa}})! \cdot (j_i + j_{sa} - j^{sa} - s)!} \cdot$$

$$\frac{(D - \boldsymbol{l_i})!}{(D + j_i - \boldsymbol{n} - \boldsymbol{l_i})! \cdot (\boldsymbol{n} - j_i)!} +$$

$$\sum_{k=1}^{i^{l-1}} \sum_{(j_s=l_i+n-D-s+1)}^{(l_s-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1}^{l_{ik}-k+1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa}-k+1)} \sum_{j_i=j^{sa}+s-\ }^{l_i-k+1}$$

$$\sum_{n_i=n+\Bbbk}^{n} \sum_{(n_{is}=n+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n+\Bbbk_2\ -j_{ik}+1}^{n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n+\Bbbk_3-\ )}^{(n_{ik}+j_{ik}-j^{sa}\ +j^{s}\ j_i-\Bbbk_3} \quad \sum_{n_s=n-j_i+}$$

$$\frac{(n_i-n_{is}\ -1)!}{(j_s\ -2)!\cdot(n_\ -\ j_s+1)!}\cdot$$

$$\frac{(\ -n_{ik}\ -\Bbbk_1-1)!}{(j_{ik}-j_s-1)!\cdot(n_{is}+j_s\ n_{ik}-j_{ik}-\Bbbk_1)!}\cdot$$

$$\frac{(n_{ik}\ n_{sa}-1)!}{(j^{sa}\ -j_{ik}-1)!\cdot(n_{ik}+j_{ik}-n_{sa}-j^{sa})!}\cdot$$

$$\frac{(n_{sa}-n_s-\Bbbk_3-1)!}{(j_i-\ a-1)!\cdot(n_{sa}+j^{sa}-n_s-j_i-\Bbbk_3)!}\cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-n-1)!\cdot(n-j_i)!}\cdot$$

$$\frac{(l_s-k-1)!}{(l_s-j_s-k+1)!\cdot(j_s-2)!}\cdot$$

$$\frac{(l_{ik}-l_s-j_{sa}^{ik}+1)!}{(j_s+l_{ik}-j_{ik}-l_s)!\cdot(j_{ik}-j_s-j_{sa}^{ik}+1)!}\cdot$$

$$\frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j^{sa}-l_{ik})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!}\cdot$$

$$\frac{(l_i+j_{sa}-l_{sa}-s)!}{(j^{sa}+l_i-j_i-l_{sa})!\cdot(j_i+j_{sa}-j^{sa}-s)!}\cdot$$

$$\frac{(D-l_i)!}{(D+j_i-n-l_i)!\cdot(n-j_i)!}+$$

$D > \boldsymbol{n} < n$

$$\sum_{k=\ _i\boldsymbol{l}} \sum_{(j_s=1)}^{(\ )}$$

$$\sum_{j_{ik}=\boldsymbol{l_{ik}}+\boldsymbol{n}-D}^{\boldsymbol{l_{ik}}-\ _i\boldsymbol{l}+1} \sum_{(j^{sa}=\boldsymbol{l_{sa}}+\boldsymbol{n}-D)}^{\left(\boldsymbol{l_{sa}}-\ _i\boldsymbol{l}+1\right)} \sum_{j_i=\boldsymbol{l_i}+\boldsymbol{n}}^{\boldsymbol{l_i}-\ _i\boldsymbol{l}+1}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{ik}=\boldsymbol{n}+\Bbbk_2+\ -j_{ik}+1)}^{(n_i-j_{ik}-\Bbbk_1+1)}$$

$$\sum_{n_{sa}=\boldsymbol{n}+\Bbbk_3-j^{s}}^{n_{ik}+j_{ik}-j^{sa}-\Bbbk_2} \sum_{(n_s=\boldsymbol{n}-j_i+1)}^{\ j^{sa}\ -\Bbbk_3}$$

$$\frac{(\ -\Bbbk_1\ -1)!}{(\ -2)!\cdot(\ -n_{ik}\ +1)!} \cdot$$

$$\frac{(n_{ik}-\ -1)!}{(j^{sa}-j_{ik}-\ )!\cdot(n_{ik}\ -n_{sa}-j^{sa})!} \cdot$$

$$\frac{(n_{sa}-\ -\Bbbk_3-1)!}{(\ -j\ -1)!\cdot(\ +j^{sa}-n_s-j_i-\Bbbk_3)!} \cdot$$

$$\frac{(n_s-1)!}{(n_s+j_i-\boldsymbol{n}-1)!\cdot(\boldsymbol{n}-j_i)!} \cdot$$

$$\frac{(\boldsymbol{l_{ik}}-\boldsymbol{l_s}-j_{sa}^{ik}+1)!}{(\boldsymbol{l_{ik}}-j_{ik}-\boldsymbol{l_s}+1)!\cdot(j_{ik}-j_{sa}^{ik})!} \cdot$$

$$\frac{(\boldsymbol{l_{sa}}+j_{sa}^{ik}-\boldsymbol{l_{ik}}-j_{sa})!}{(j_{ik}+\boldsymbol{l_{sa}}-j^{sa}-\boldsymbol{l_{ik}})!\cdot(j^{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot$$

$$\frac{(\boldsymbol{l_i}+j_{sa}-\boldsymbol{l_{sa}}-s)!}{(j^{sa}+\boldsymbol{l_i}-j_i-\boldsymbol{l_{sa}})!\cdot(j_i+j_{sa}-j^{sa}-s)!} \cdot$$

$$\frac{(D-\boldsymbol{l_i})!}{(D+j_i-\boldsymbol{n}-\boldsymbol{l_i})!\cdot(\boldsymbol{n}-j_i)!} -$$

$$\sum_{k=1}^{D+\boldsymbol{l_s}+s-\boldsymbol{n}-\boldsymbol{l_i}} \sum_{(j_s=\boldsymbol{l_i}+\boldsymbol{n}-D-s+1)}^{(\boldsymbol{l_s}-k+1)}$$

$$\sum_{j_{ik}=j_s+j_{sa}^{ik}-1} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(\ )} \sum_{j_i=j^{sa}+s-j_{sa}}$$

$$\sum_{n_i=\boldsymbol{n}+\Bbbk}^{n} \sum_{(n_{is}=\boldsymbol{n}+\Bbbk-j_s+1)}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_s-j_{ik}-\Bbbk_1}$$

$$\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\Bbbk_2)}^{(\quad)} \sum_{n_s=n_{sa}+j^{sa}-j_i-\Bbbk}$$

$$\frac{\left(n_i + 2 \cdot j_s + j_{sa}^{ik} - j_{ik} - j_i - \Bbbk_1 - \Bbbk_2 - \Bbbk_3 - 2 \cdot j_s\right)!}{(n_i - \boldsymbol{n} - \Bbbk_1 - \Bbbk_2 - \Bbbk_3)!} \cdot$$

$$\frac{1}{\left(\boldsymbol{n} + 2 \cdot j_s + j_{sa}^{ik} - j_i - j_{sa}^{s}\right)!} \cdot$$

$$\frac{- k - 1)!}{(\boldsymbol{l}_s - j_s - 1)! \cdot (j_s - 2} \cdot$$

$$\frac{(D \quad j_i - \boldsymbol{n} - \quad \boldsymbol{n} - j_i)!}{}$$

DİZİN

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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

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Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz durumlu-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/

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Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

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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

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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

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VDOİHİ'de Olasılık ve İhtimal konularının tanım ve eşitlikleri verilmektedir. Ayrıca VDOİHİ'de olasılık ve ihtimalin uygulama alanlarına da yer verilmektedir. VDOİHİ konu anlatım ciltleri ve soru, problem ve ispat çözümlerinden oluşmaktadır. Bu cilt bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz olasılık dağılımlarında, simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılığın, tanım ve eşitliklerinden oluşmaktadır.

VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu durumlunun ilk herhangi iki ve son durumunun bulunabileceği olaylara göre toplam düzgün olmayan simetrik olasılık kitabında, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlarda, simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre 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 ve ana eşitlikten teorik yöntemle üretilmiştir. Eşitlik ve tanımların üretilmesinde dış kaynak kullanılmamıştır.