

VDOİHİ

Bağımlı ve Bir Bağımsız Olasılıklı
Farklı Dizilimsiz Bağımlı Durumlu
Simetrisinin Herhangi İki Durumuna
Bağılı İlk Düzgün Olmayan Simetrik
Olasılık

Cilt 2.3.2.3.4.1.1.11

İsmail YILMAZ

2023

Matematik / İstatistik / Olasılık

ISBN: 978-625-6526-20-4

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VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin herhangi iki durumuna bağlı ilk düzgün olmayan simetrik olasılık Cilt 2.3.2.3.4.1.1.11

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Yılmaz, İsmail.

VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin herhangi iki durumuna bağlı ilk düzgün olmayan simetrik olasılık-Cilt 2.3.2.3.4.1.1.11 /

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e-Basım, s. XXV + 1036

Kaynakça yok, izin var

ISBN: 978-625-6526-20-4

1. Bağımlı durumlu simetrisinin herhangi iki durumuna bağlı ilk düzgün olmayan simetrik olasılık

Dili: Türkçe + Matematik Mantık



Türkiye Cumhuriyeti Devleti
Kuruluşunun
100.Yılı Anısına



K. Atatürk

Yazar Hakkında

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

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Sanırım bilgi ve teknolojideki kaderimiz veriyle ilişkilendirilmiş.

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GÜLDÜNYA

Simge ve Kısaltmalar

n : olay sayısı

n : bağımlı olay sayısı

m : bağımsız olay sayısı

l : bağımsız durum sayısı

L : simetrimin bağımsız durum sayısı

l : simetrimin bağımlı durumlarından önce bulunan bağımsız durum sayısı

L : simetrimin bağımlı durumlarından sonra bulunan bağımsız durum sayısı

lk : simetrimin bağımlı durumları arasındaki bağımsız durumların sayısı

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

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

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

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

l_s : simetrimin ilk bağımlı durumunun, bağımlı olasılıklı farklı dizilimsiz

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

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

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

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

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

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

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

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

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

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

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

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

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

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

D : bağımlı durum sayısı

D_i : olayın durum sayısı

s : simetrinin bağımlı durum sayısı

s : simetrik durum sayısı. Simetrinin bağımlı ve bağımsız durum sayısı

m : olasılık

M : olasılık dağılım sayısı

U : uyum eşitliği

u : uyum derecesi

s_i : olasılık dağılımı

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

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

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

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

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

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

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

$f_{Z,0} S_{j_s,j_i,0}^{IS}$: bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı

durumlu bağımsız simetrisinin ilk ve son durumunun bulunabileceği olaylara göre ilk simetrik olasılık

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

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

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

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

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durumunun bulunabileceği olaylara göre ilk simetrik olasılık

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

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

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

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göre herhangi bir ve son durumuna bağlı ilk düzgün olmayan simetrik olasılık

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

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

bağımsız veya bağımlı-bağımsız veya bağımsız-bağımsız durumlu bağımsız simetrinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı ilk 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

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

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

Bağımlı dağılım ve bir bağımsız olasılıklı durumla oluşturulabilen dağılımlara ve bağımlı olasılıklı dağılımların kendi olay sayısından (bağımlı olay sayısı) büyük olmasına (bağımsız olay sayısı) dağılımla bağımlı ve bir bağımsız olasılıklı dağılımlar elde edilir. Bağımlı dağılım farklı dizilimsiz dağılımlarda incelendiğinde, bu dağılımlara bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlar denir. Bağımlı ve bir bağımsız olasılıklı dağılımlar; bağımlı dağılımlara, bağımsız durumlar ilk durumdan dağıtılmaya başlanarak tabloları elde edilir. Bu bölümde verilen eşitlikler, bu yöntemle elde edilen kurallı tablolara göre verilmektedir. Farklı dizilimsiz dağılımlarda durumların küçükten-

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

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

Simetrinin durumlarının bağımlı olasılık farklı dizilimsiz dağılımlardaki sırasına göre verilen eşitliklerdeki toplam 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, büyüğe-küçüğe sıralanan dağılımlar için de simetrik olasılık eşitlikleri elde edilecektir.

Bu şekilde bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlardan, bağımsız olasılıklı durumla başlayıp ilk bağımlı durumu bağımlı olasılıklı dağılımın ilk bağımlı durumu bağımlı olasılıklı dağılımın ilk bağımlı durumuyla başlayan dağılımlarda, simetrinin herhangi iki durumuna bağlı ilk düzgün olmayan simetrik olasılığın eşitlikleri verilmektedir.

SİMETRİDEN SEÇİLEN İKİ DURUMA GÖRE İLK DÜZDÜN OLMAYAN SİMETRİK OLASILIK

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

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

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

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

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

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

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

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

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

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{\binom{()}{j_{ik} = l_s + n + j_{sa}^{ik} - D - 1}} \sum_{j_{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \sum_{n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1}^{n_i - j_{ik} - \mathbb{k}_1 + 1} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \left(\sum_{k=1}^{\binom{j^{sa} + j_{sa}^{ik} - j_{sa} - 1}{j_{ik} = l_s + n + j_{sa}^{ik} - D - 1}} \sum_{j_{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \right)$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$k_z: z = 2 \wedge k = k_1 + k_2 \Rightarrow$$

$$f_Z S_{j_{ik} j_{sa}}^{iso} = \left(\sum_{k=1}^{(n+j_{sa}^{ik}-l_{sa})} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-l_{sa})} \sum_{(j_{sa}=l_{sa}+n-D)}^{(n+j_{sa}^{ik}-l_{sa})} \right. \\ \left. \sum_{(n_i=n+k_1)}^{(n_i=n+k_1+l_{sa}-k_1+1)} \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_{ik}=n+k_2-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{sa}=n-j_{sa}+1} \right. \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\ \left. \sum_{n_i=n+k_1}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \right. \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) +$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \frac{(n+j_{sa}-s)!}{(j_{ik}=l_i+n+j_{sa}^{ik}-j_{sa}) j^{sa}-j_{ik}+1} \sum_{j_{sa}^{ik}=j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n+l_k-j_{ik}+1)}^{n_i-j_{ik}-l_{sa}-1} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-l_{k2}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}^{ik}=j_{sa}^{ik}-D-s}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}^{ik}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\end{aligned}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^i, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

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

$$(\mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

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

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

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

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

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

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - n - 1)!}{(D + j^{sa} + s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

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

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

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

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

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

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

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

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

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

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

$$s \in \{j_{sa}^{ik}-1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

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

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n+l_k-j_{ik}+1)}^{(n_i-j_{ik}-l_{k1}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - j_{ik} - l_{k1} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} + j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-l_{k1}}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k2})}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$\begin{aligned} & f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} \sum_{i=1}^{(j_{sa}^{ik} - j_{sa})} \sum_{j_{ik}=l_s + \mathbf{n} + j_{sa}^{ik} - D - 1}^{(j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}=l_i + \mathbf{n} + j_{sa} - D - s}^{n + j_{sa} - s} \\ & \sum_{i=\mathbf{n} + \mathbb{k}}^{(n_i - \mathbb{k}_1 + 1)} \sum_{n_{ik}=\mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \sum_{n_{sa}=\mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

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

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

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

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

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

$$(D \geq n < n \wedge I = \mathbb{k}_1 + \mathbb{k}_2 + 0 \wedge$$

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

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

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

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} &= \sum_{k=1}^{\infty} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
\end{aligned}$$

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^{s-\mathbb{k}_1}, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^{i-\mathbb{k}_2}, \dots, j_{sa}^i\} \wedge$$

$$s \leq 4 \wedge \mathbf{s} = s - \mathbb{k} \wedge$$

$$\mathbb{k}_{z_1} = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}=l_s+\mathbf{n}+j_{sa}-D-1}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!}
\end{aligned}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n+l_k-j_{ik}+1)}^{(n_i-j_{ik}-l_{k1}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-l_{k2}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} + j^{sa})!} \cdot \\
& \frac{(n - j^{sa} - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-l_{k1}}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k2})}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{ISO}} = & \sum_{k=1}^{\mathbf{n}} \sum_{(j_{ik}=j_{sa}^{sa}+j_{sa}^{ik}-j_{sa})}^{(j_{ik}=j_{sa}^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}_1}^{\mathbf{n}} \sum_{n_{is}=\mathbf{n}+\mathbb{k}_2}^{(n_{is}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+\mathbb{k}_2}^{\mathbf{n}-j_{sa}+\mathbb{k}_2+1} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{is} - n_{sa} - 1)!}{(n_{is} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\ & \sum_{k=1}^{\mathbf{n}} \sum_{(j_{ik}=j_{sa}^{sa}+j_{sa}^{ik}-j_{sa})}^{(j_{ik}=j_{sa}^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\mathbf{n}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(j_{ik}=j_{sa}^{sa}+j_{sa}^{ik}-j_{sa})} \end{aligned}$$

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

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

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

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

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

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

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

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

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

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

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

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

$$S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$f_z \mathcal{S}_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=l_{sa}+n}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=n+j_{sa}+1}^{n+j_{sa}-s} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(j_{sa}-n_{ik}-1)!}{(n_{ik}+j_{ik}-j_{sa})!} \cdot \frac{(n_{ik}-1)!}{(n_{sa}-j_{sa}-n+1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{sa}+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-l)!}{(n_i-n-l)! \cdot (n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^i, \mathbb{K}_2, j_{sa}, j_{sa}^i\} \wedge$$

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

$$\mathbb{K}_Z: Z \geq 2 \wedge \mathbb{K} = \mathbb{K}_1 + 1 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)} \\ & \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \end{aligned}$$

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

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

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

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

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-l_{k1}} \sum_{(n_{ik}=n_{ik}+j_{ik}-j_{sa}^{ik}-l_{k2})}$$

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

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

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

$$((D \geq n < n \wedge I = \mathbb{K} \geq 1 \wedge$$

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1} \sum_{\binom{()}{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{\substack{n+j_{sa}-s \\ j_{sa}=l_{ik}+n+j_{sa}-D-j_{sa}^{ik}}} \sum_{\substack{n \\ n_i=n+\mathbb{k} \\ (n_{ik}=n+\mathbb{k}_2+1) \\ (n_{sa}=n-j_{sa}^{ik}-1)}} \sum_{\substack{(n_i-j_{ik}-\mathbb{k}_1+1) \\ (n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}} \frac{(n_i-n_{sa}-1)!}{(j_{ik}-2)! \cdot (n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}^s)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa}^s)!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}^s-s)!} - \sum_{k=1} \sum_{\binom{()}{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{\substack{n+j_{sa}-s \\ j_{sa}=l_i+n+j_{sa}-D-s}} \sum_{\substack{n \\ n_i=n+\mathbb{k} \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}} \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}} \sum_{\substack{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1 \\ (n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}} \sum_{\binom{()}{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)}} \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-l)!}{(n_i-n-l)! \cdot (n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

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

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

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

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

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

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

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

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

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

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

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

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

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

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

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

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

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{isa}=\mathbf{n}_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)}^{(n_{ik}-j_s+1)}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$\mathbb{k}_Z: Z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

$$\begin{aligned} & f_Z S_{j_{ik}} \sum_{k=1}^{(l_i + \mathbf{n} + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = l_{ik} + \mathbf{n} - D)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \end{aligned}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^i, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}^i, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s \leq s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: \mathbb{Z} \geq 2 \wedge \mathbb{K} = \mathbb{K}_Z \wedge \mathbb{K}_2) \Rightarrow$$

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{ik} = j_{sa}^{ik} - D - j_{sa}}^{(n + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa} = l_{sa} + n - D}^{n + j_{sa}^{ik} - j_{sa}} \sum_{n_i = n + \mathbb{k} (j_{ik} = n + \mathbb{k}_2 - j_{ik} - 1)}^{(n_i - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{j_{sa} - \mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \sum_{k=1}^{()} \sum_{j_{ik} = j_{sa}^{ik} + j_{sa}^{ik} - j_{sa}}^{()} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{n + j_{sa} - s} \sum_{n_i = n + \mathbb{k} (n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^n \sum_{(n_i - j_s + 1)}^{(n_i - j_s + 1)}$$

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

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

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

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

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

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

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

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

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

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

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

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

$$(D \geq n < n \wedge I = n - 0 \wedge$$

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

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

$$\geq 4 \wedge j_{sa}^i = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_2) \Rightarrow$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$f_Z S_{j_{ik} j_{sa}}^{\text{iso}} = \sum_{k=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = l_{ik} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)}^{j_{sa} = l_{sa} + \mathbf{n} - D} \sum_{j_{sa} = l_{sa} + \mathbf{n} - D}^{j_{sa} = \mathbf{n} - D} \sum_{n_i = \mathbf{n} + \mathbb{k}_1}^n \sum_{(n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(n_i - j_{ik} - 1)} \sum_{n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{n_{ik} + j_{ik} - \mathbb{k}_2} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{sa} = \mathbf{n} - j_{sa} + 1} \frac{(n_i - j_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa})}^{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \sum_{n_i = \mathbf{n} + \mathbb{k}_1}^n \sum_{(n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(n_i - j_{ik} - 1)} \sum_{n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{sa} = \mathbf{n} - j_{sa} + 1} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

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

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

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

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

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

$$\sum_{k=0}^{(n_{ik} - j_{sa}^{ik} - 1)} \frac{(n_{ik} - j_{sa}^{ik} - k)!}{(j_{ik} - j_{sa}^{ik} - k)! \cdot (n_{ik} - j_{sa}^{ik} - k)!} \cdot$$

$$\sum_{k=0}^{(n_{ik} - j_{sa}^{ik} - 1)} \frac{(n_{ik} - j_{sa}^{ik} - k)!}{(j_{ik} - j_{sa}^{ik} - k)! \cdot (n_{ik} - j_{sa}^{ik} - k)!} \cdot$$

$$\sum_{k=0}^{(n_{ik} - j_{sa}^{ik} - 1)} \frac{(n_{ik} - j_{sa}^{ik} - k)!}{(j_{ik} - j_{sa}^{ik} - k)! \cdot (n_{ik} - j_{sa}^{ik} - k)!} \cdot$$

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

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

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

$$D > n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

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

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

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

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}^{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}^{l_{ik}+j_{sa}-j_{sa}} \sum_{j_{sa}^{s}=j_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - j_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(n + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} - \\ & \sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}^{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}^{n+j_{sa}-s} \sum_{j_{sa}^{s}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\binom{()}{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{n+j_{sa}-s} \\ & \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \end{aligned}$$

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

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

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

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

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

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

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n < n \wedge l = k \geq 0 \wedge$$

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

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$\in \mathbb{Z} S_{j_{ik}, j_{sa}}^{\text{ISO}} = \sum_{k=1}^n \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2}$$

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

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

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

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

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

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

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

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

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

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

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

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D+j_{sa}-\mathbf{n} \wedge$$

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^i-\mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, j_{sa}^i-j_{sa}\} \wedge$$

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

$$\mathbb{k}_2: \mathbf{s} \geq 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

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

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

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

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

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

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

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

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

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{(j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa})} \right. \\ \left. \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right. \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - n_{sa} - 1)!}{(n_{sa} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \Big) + \\ \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\ \left. \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right. \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - n_{sa} - 1)!}{(n_{sa} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) +$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{a=j_{sa}+1}^{n_s + j_{sa} - 1} \\ &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa}}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{ik} - n_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \\ &\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j_{sa} = l_s + j_{sa}}^{l_{sa}} \\ &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \end{aligned}$$

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

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

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

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

$$\sum_{k=1}^{l_s} \sum_{j_{ik}=j_{sa}^{ik}-j_{sa}}^{j_{ik}=j_{sa}^{ik}-j_{sa}-1} j_{sa}^{ik} j_{sa}^{ik-1}$$

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

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

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

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

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

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_i \leq D + j_{sa} - \mathbf{n} \wedge$$

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

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

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

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

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

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

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

$$\frac{(l_s - \mathbb{k}_1)!}{(l_s + j_{sa}^{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - \mathbb{k}_1)!}{(D + j_{sa} + s - n - \mathbb{k}_1 - j_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - n$$

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

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

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

$$(D \geq n < n \wedge I = \mathbb{k}_1 = 0 \wedge$$

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

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

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

$$\mathbb{k}_z: z \geq 2 \wedge \mathbb{k} = \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \left. \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right)$$

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

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

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

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

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

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

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

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

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

$$s \in \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}^{ik} - j_{sa}^s\} \wedge$$

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

$$z: z = \mathbf{n}, \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{ISO} &= \left(\sum_{k=1}^{(l_s+j_{sa}^{ik}-1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\},$$

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

$$\mathbb{k} \cdot z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$fz S_{j_{ik} j_{sa}}^{\text{iso}} = \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{j_{sa}^{ik} - 1} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{l_{sa}}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$j_{sa}^{ik} \leq \mathbf{n} \wedge I = \mathbb{k} \geq 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$\mathbb{k}_Z: Z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

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

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

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

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

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

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

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

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

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

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

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(l_s - 2)!}{(n + j_{sa}^{ik} - j_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

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

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

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

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

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

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

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

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

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

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \Bigg) \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{lk}-j_{sa})} \sum_{l_{ik}+j_{sa}-j_{sa}^{lk}}^{l_{ik}+j_{sa}-j_{sa}^{lk}} j_{sa}^{lk} \sum_{j_{sa}^{lk}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{lk}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{lk}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{lk}+1)}^{(j_{sa}+j_{sa}^{lk}-j_{sa}-1)} \sum_{j_{sa}^{lk}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{lk}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{lk}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(D \geq \mathbf{n} < n \wedge l_s = 0 \wedge l_s \geq 0 \wedge$$

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

$$s: \{\mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^{ik}, \dots, j_{sa}^i\}.$$

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

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_1 = \mathbb{k}_2 = 2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \left(\sum_{k=1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right).$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(D \geq n < n \wedge l = k \geq 0 \wedge$$

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

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_z S_{j_{ik}^{sa}} = \sum_{k=1}^{(j_{ik}^{sa} - j_{sa})} \sum_{j_{sa}^{ik} = l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = l_i + n + j_{sa} - D - s} \sum_{n=n+k}^n \sum_{n_{ik} = n + k_2 - j_{ik} + 1}^{j_{ik} - k_1 + 1} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - k_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$f_Z S_{j_{ik}, j_{sa}}^{\mathbb{k}} = \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{n + j_{sa} - s} \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq n < n \wedge l = k \geq 0 \wedge$$

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

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j}^{iso} &= \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{j_{sa}^{ik}-j_{sa}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1} \\ &\sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \end{aligned}$$

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

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

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

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

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

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

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

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

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

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} C_{j_{sa}}^{iso} &= \sum_{k=1}^n \sum_{(i_{ik}=1)}^{(l_i+n+j_{sa}^{ik}-s-1)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\ &\sum_{i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \end{aligned}$$

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

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{\mathbf{n}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{(\quad)}{l_{ik}+j_{sa}-j_{sa}^{ik}}} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}-j_{sa}-j_{sa}^{ik}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \sum_{k=1}^{\mathbf{n}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\binom{(\quad)}{l_{ik}+j_{sa}-j_{sa}^{ik}}} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

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

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

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

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

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} = l_i \wedge l_i - j_{sa} - s > 0 \wedge$$

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

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

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

$$s \in \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{ik}\} \wedge$$

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

$$z: z = \mathbf{n} \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{\text{iso}} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

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

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

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

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

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

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

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

$$\sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k2})}$$

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

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

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

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

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

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

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

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

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

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

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

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

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1}^{(\mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{j_{sa} = \mathbf{l}_{sa} + \mathbf{n} - D}^{(j_{sa} - j_{sa}^{ik} + 1)} \sum_{n_i = \mathbf{n} + \mathbb{k}}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{(n_{sa} - j_{sa} - \mathbb{k}_2)} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{sa} - n_{sa} - 1)!}{(j_{sa} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j_{sa} - \mathbf{l}_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{\mathbf{l}_{ik}} \sum_{j_{sa} = \mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa}}^{(\mathbf{l}_{ik})} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{\mathbf{n} + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^{\mathbf{n}} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - n_{sa} + 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n_i - j_s + 1)} \sum_{(j_{ik}=l_{ik} + j_{sa}^{ik} - D - j^{sa} - j_{sa}^{ik})} \sum_{(n_{is}=n + l_k + j_{sa}^{ik} - j_{ik})} \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-l_{k1}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k2})}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - j_s + 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

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

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

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

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

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

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$f_z S_{j_{ik}, j_{sa}}^{\text{ISO}} = \sum_{k=1} \sum_{(j_{ik} = l_{ik} + n - D)}^{(l_{ik})} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(n - j_{ik} + 1)} \sum_{(n_{ik} = n - \mathbb{k}_1 + j_{sa} - j_{sa}^{ik} - \mathbb{k}_2)}^{(n_{ik} + j_{sa} - j_{sa}^{ik} - \mathbb{k}_2)} \sum_{(n_i = n + \mathbb{k}_1 + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} + 1)} \sum_{(n_{is} = n + \mathbb{k}_1 + j_{sa}^{ik} - j_{ik})}^{(n_{is} + j_{sa}^{ik} - j_{ik})} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1)}^{(n_{ik} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{(n_{sa} + j_{ik} - j_{sa} - \mathbb{k}_2)} \frac{(n_i - j_{ik} + 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} - \sum_{k=1} \sum_{(j_{ik} = l_{ik} + n - D)}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})} \sum_{(n_i = n + \mathbb{k}_1)}^{(n_i - j_s + 1)} \sum_{(n_{is} = n + \mathbb{k}_1 + j_{sa}^{ik} - j_{ik})}^{(n_{is} + j_{sa}^{ik} - j_{ik})} \sum_{(n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1)}^{(n_{ik} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{(n_{sa} + j_{ik} - j_{sa} - \mathbb{k}_2)} \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

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

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

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

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

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

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

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq n < n \wedge l = k \geq 0 \wedge$$

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

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$fz S_{j_{ik}, j_{sa}}^{iso} = \sum_{i=1}^n \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{ik}=n+k_2-j_{ik}+1}^{n_{ik}+j_{ik}-j^{sa}-k_2} \sum_{n_{sa}=n-j^{sa}+1}^{n+j_{sa}-s} j^{sa} = l_i + n + j_{sa} - D - s$$

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

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

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

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

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

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

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

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

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

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

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

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

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

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

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

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

$$j_{sa}^{i_1} - 1 \wedge j_{sa}^{i_2} - 1 \wedge j_{sa} \leq j_{sa}^{i_1} - 1 \wedge$$

$$s \cdot \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{i_1}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^{i_s}\} \wedge$$

$$s \geq \mathbf{n} \wedge s = s +$$

$$\mathbb{k}_z: z = 2, \dots, \mathbf{n} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{\text{iso}} = \sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

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

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - n_{sa} + 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{l_i=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{ik}=l_i + j_{sa}^{ik} - D - s}^{(j_{ik} - j_{sa}^{ik} - 1)} \sum_{j_{sa}^{ik}=j_{sa} - j_{ik}}^{(n_i - j_s + 1)} \\
& \sum_{n+l_k}^{(n_i - j_s + 1)} \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{l_k=n_{is}+j_{sa}^s-j_{sa}^{ik}-l_{k1}}^{(n_i - j_s + 1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k2})}^{(n_i - j_s + 1)} \\
& \frac{(n_i - 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

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

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

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

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

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

$$(D \geq n < n \wedge l = l_k \geq 0 \wedge$$

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

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

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1} \sum_{\binom{()}{(j_{ik}=j_{sa}^a+j_{sa}^{ik}-j_{sa})}} \sum_{\substack{n+j_{sa}-s \\ j_{sa}=l_{ik}+n+j_{sa}-D-j_{sa}^{ik}}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}-\mathbb{k}_1+1) \\ (n_{ik}=n+\mathbb{k}_2+1)}} \sum_{\substack{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2 \\ n_{sa}=n-j_{sa}+1}} \\ & \frac{(n_i - n_{sa} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \cdot \\ & \sum_{k=1} \sum_{\binom{()}{(j_{ik}=j_{sa}^a+j_{sa}^{ik}-j_{sa})}} \sum_{\substack{l_s+j_{sa}-1 \\ j_{sa}=l_{ik}+n+j_{sa}-D-j_{sa}^{ik}}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{\substack{(n_i-j_s+1) \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{\binom{()}{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}} \\ & \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ & \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \end{aligned}$$

$$\frac{(j^{sa} - j_{ik} - j_{sa})! \cdot l_{ik} + j_{sa} - j_{sa}^{ik}}{\sum_{j_{ik}=1}^n \sum_{j_{sa}=1}^{n-D} (j_{ik} + j_{sa} - n - D) j^{sa} = l_i + n + j_{sa} - D - s} \cdot \frac{n}{\sum_{n=n+k_1}^n} \frac{(n_i - j_{ik} - k_1 + 1)!}{\sum_{n_{ik}=n+k_2}^n} \frac{n_{ik} + j_{ik} - j^{sa} - k_2}{n_{sa} = n - j^{sa} + 1} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

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

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

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

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

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

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

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

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

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

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

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}^{sa}}^{ISO} = \sum_{k=1}^{\mathbf{n}+j_{sa}^{ik}-\mathbf{l}_{ik}-1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{\mathbf{n}+j_{sa}^{ik}-1} \sum_{j_{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} \\ \sum_{n_i=\mathbf{n}+\mathbb{K}}^{\mathbf{n}} \sum_{n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=1}^{\mathbf{n}} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_{ik})} \sum_{j_{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} j_{sa}^{ik}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$f_z^{SO} j^{sa} = \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

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

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

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

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa}^{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

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

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_{sa} \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} \leq l_i \leq D - l_{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - \mathbb{k}_1 - \mathbb{k}_2 - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{n} - \mathbb{k} \geq 0)$$

$$j_{sa}^{i_{sa}} - 1 \wedge j_{sa}^{ik} = j_{sa}^{i_{sa}} - 1 \wedge j_{sa} \leq j_{sa}^{ik} - 1 \wedge$$

$$s \cdot \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbf{n} \wedge s = s + 1$$

$$\mathbb{k}_z: z = 2, \dots, \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} &= \sum_{k=1}^{(\mathbf{l}_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}-j_{sa}^{ik}} \sum_{j_{sa}=j_{sa}^{ik}-j_{sa}^{ik}}^{j_{sa}^{ik}-j_{sa}^{ik}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-1)+1} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{ik})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa}^{ik})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s)!} - \end{aligned}$$

$$\begin{aligned} &\sum_{k=1}^{(\mathbf{l}_s + j_{sa}^{ik} - k)} \sum_{j_{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}-j_{sa}^{ik}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{j_{sa}^{ik}-j_{sa}^{ik}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \end{aligned}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (D + j_{sa} - j_{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\},$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k}$$

$$\mathbb{k} - z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik} j_{sa}}^{\text{ISO}} = \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)} j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_{ik})}^{(n_i+\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_2}^{(n_{ik}+1)} \sum_{j_{sa}^{ik}=j_{sa}-\mathbb{k}_2}^{(n_{ik}+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(D + j_{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s \leq 1 \wedge l_s \leq D - \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq \mathbf{n} + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa}^{ik} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D - \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^i - 1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + k}^n \sum_{(n_{ik} = n + k_2 - j_{ik} + 1)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - k_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n - n_{sa} - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j^{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - k_1} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - k_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z^{ISO} j_{ik}, j_{sa} = \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{ik} = j_{sa}^{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = j_{sa}^{ik} + j_{sa} - j_{sa}^{ik}} \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - j_{sa} + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(n_i - j_{ik} - j_{sa} + 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} -$$

$$\sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - s)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}-\mathbb{K}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s$$

$$l_i \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{ISO}} = & \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \frac{(j_{sa} + j_{sa}^{ik} - j_{sa})!}{(j_{ik} - j_{sa}^{ik} + 1)!} \cdot \frac{(l_{ik} - j_{sa} - j_{sa}^{ik})!}{(l_{ik} - j_{sa} - j_{sa}^{ik} + 1)!} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(l_{ik})} \sum_{j_{sa} = l_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{l_{sa}} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{l_s} \sum_{l_s + j_{sa} - 1}^{j_{sa} + j_{sa}^{ik} - j_{sa} - 1} \sum_{j_{sa} + 1}^{l_s + j_{sa} - 1}$$

$$\sum_{n+l_k}^{(n_i - j_s + 1)} \sum_{(n_{is} = n + l_k + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{k=n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - l_{k1}}^{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - l_{k2})} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - l_{k2})}^{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - l_{k2})}$$

$$\frac{(n_i - 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n_{sa} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D - l_i) \leq n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_s \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_s \wedge$$

$$l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i = j_{sa} - 1 \wedge j_{sa}^{ik} \leq j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^s - \mathbb{K}_2, j_{sa}^i, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + 1$$

$$\mathbb{K}_Z: \mathbb{Z} \geq 2 \wedge \mathbb{K} = \mathbb{K}_1 + 1) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j^{sa}}^{\text{ISO}} &= \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \end{aligned}$$

$$j_{sq}^{ik} \leq j_{ik} \leq j^{sa} + j_{sq}^{ik} - j_{sq} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - (\mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{(l_{ik})} \sum_{(i_{ik}=\mathbf{l}_{sa}+j_{sa}^{ik}-D-j_{sa})}^{(j_{sa}^{ik}-j_{sa})} \sum_{(j_{sa}^{ik}-j_{sa})}^{(j_{sa}^{ik}-j_{sa})} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-j_{sa}^{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{sa}^{ik} - j_{sa} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} - \\ & \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(j_{sa}^{ik}-j_{sa})} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \end{aligned}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - s - j_{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1) \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - (j_{sa}^{ik} - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - n < l_{sa} \leq D + l_s + j_{sa}^{ik} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} + 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_s - j^{sa} - \mathbf{n} - 1)!}{(l_s + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} + j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbf{n}} \sum_{(j_{ik}+j_{sa}^s+j_{sa}^{ik}-j_{sa})}^{(j_{ik}+j_{sa}^s+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i - \mathbf{n} - 1)! \cdot (j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(\mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}}^{\mathbb{k}} &= \sum_{j_{ik}=j_{sa}^{ik}+1}^{(j_{sa}^{ik}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=l_{sa}+n-D}^{l_s+j_{sa}-1} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{lk} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_s + j_{sa}} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_i - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{lk} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{lk} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{lk} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{lk} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(\quad)} \sum_{(j_{ik} = j^{sa} + j_{sa}^{lk} - j_{sa})}^{l_{ik} + j_{sa} - j_{sa}^{lk}} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{lk} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{lk} - \mathbb{k}_1}^{(\quad)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{lk} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{lk} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{lk} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{lk} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - n - j_{sa}^{ik} < l_{sa}$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} j_{ik, j_{sa}}^{ISO} &= \sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \\ &\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - s)}^{(j_{sa}^{ik} - j_{sa} - s)} \sum_{(j_{sa}^{ik} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(j_{sa}^{ik} - j_{sa} - s)} \\
& \sum_{n_i = \mathbf{n} + \mathbb{K}_1}^n \sum_{(n_i - j_{ik} - 1)}^{(n_i - j_{ik} - 1)} \sum_{(n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{K}_2)}^{(n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{K}_2)} \\
& \frac{(n_i - n_{ik})!}{(n_i - j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - s)}^{(l_{ik})} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(l_{ik})} \\
& \sum_{n_i = \mathbf{n} + \mathbb{K}_1}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{K}_1 + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{K}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2)}^{()}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} = & \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_{ik} + n - D)} \sum_{j_{sa} = l_{sa} + n - D}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa} - j_{sa} - j_{sa}^{ik} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_{ik} + n - D)}^{(l_{ik})} \sum_{j_{sa} = l_{sa} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \end{aligned}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} \leq l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\}$$

$$s \geq 4 \wedge \mathbf{s} = s + 1 \wedge$$

$$\mathbb{K}_1: z = 2 \wedge \mathbb{K}_2 = \mathbb{K}_1 + 1) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = l_{ik} + \mathbf{n} - D)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + \mathbf{n} - D}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\infty} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(j_{sa}-s)} \\
& \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_i-j_{ik}-1)}^{(n_i-j_{ik}+1)} \sum_{(n_{ik}+j_{ik}-\mathbb{k}_2)}^{(n_{ik}+j_{ik})} \sum_{(n_{sa}=n-j^{sa}+1)}^{(n_{sa}-j_{ik}-1)} \\
& \frac{(n_i - n_{ik} - j_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{sa} - j_{ik} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} - j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\infty} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-1)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \\
& \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_{is}=n+\mathbb{k}_1+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2).$$

$$f_z S_{j_{ik}, j^{sa}}^{\text{iso}} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j^{sa}=j_{sa}} \right)$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \Bigg) +$$

$$\begin{aligned}
& \left(\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_i - n_{sa} - 1)!}{(n_i + j^{sa} - n_{sa} - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(n_i + j_{sa} - 1 - l_{ik})!}{(n_i + j_{sa}^{ik} - n_{sa} - l_{ik})! \cdot (n - j_{sa})!} \cdot \\
& \left. \frac{(D + n - l_{sa})!}{(D + n_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i + j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D - n \leq l_s \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n \wedge l_i \leq D + s - n \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}=j_{sa}}^{l_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{ik}-j_{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{ik} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \cdot \\ &\sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_{sa}=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ &\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{n-j_{sa}-\mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{ik})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa}^{ik})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} -$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} &= \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\sum_{n_i=\mathbb{k}}^{(n_i-\mathbb{k}_1+1)} \sum_{n_{ik}=\mathbb{k}_2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{sa}+j_{sa}-\mathbf{n}-1} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} - \end{aligned}$$

$$\sum_{k=1}^{\binom{()}{}} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - \mathbb{k})!}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^i - 1 \wedge j_{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{ik} - \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge j_{sa}^i = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z \geq 2 \wedge \mathbb{k}_Z = \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} \sum_{j^{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (D + j_{sa} - j^{sa} - l_{sa})!} \cdot$$

$$\sum_{k=1}^{(\cdot)} \sum_{j_{sa}=j_{sa}}^{(\cdot)} \sum_{j_{sa}=j_{sa}}^{(\cdot)}$$

$$\sum_{n_{ik}=n_{ik}+\mathbb{k}}^n \sum_{(n_{ik}=n_{ik}-j_{ik}+\mathbb{k}+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\cdot)}$$

$$\frac{(n_{ik} + \mathbb{k} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_{ik} + \mathbb{k} - 1)! \cdot (n_{ik} + 2 \cdot j_{sa}^{ik} - j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n) \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_s \leq j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n) \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{sa})} \sum_{(j_{sa}=j_{ik}^{ik}-j_{sa}^{ik})}^{(l_{sa})} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-\mathbb{k}_2)}^{(n_{ik}+j_{ik}-\mathbb{k}_2)} \frac{(n_i-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(l_{ik}+l_{sa}-j_{sa}-l_{ik})! \cdot (j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} -$$

$$\sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j_{sa}=j_{sa}}^{()}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{()}$$

$$\frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k})!}{(n_i-n-\mathbb{k})! \cdot (n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_{2, \mathbf{n} - \mathbf{s} + 1, j_{sa}}^{iso} &= \left(\sum_{k=1}^{(n_i - j_{sa} - \mathbb{k}_1 + 1)} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{sa} = j_{sa}}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \right. \\ &\quad \sum_{n_{sa} = \mathbf{n} + \mathbb{k}}^{(n_i - j_{sa} - \mathbb{k}_1 + 1)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ &\quad \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\quad \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) + \\ &\quad \left(\sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik})} \sum_{j_{sa}^{sa} = j_{sa} + 1}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - n - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{(j_{ik}=j_{sa}^{ik})}^{(j_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) -
\end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)}{(D + s - \mathbf{n} - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \leq 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \right) + \\
& \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i - j_{ik} - 1)!}{(n_i - 2)! \cdot (n_i - j_{ik} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{()} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{I_s} &= \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n_i+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} - \\ &\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j_{sa}=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \end{aligned}$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$((D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j_{sa}^{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{\mathbb{k}_1=1}^{n_{ik}+1} \sum_{\mathbb{k}_2=1}^{n_{sa}+1} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{j_{sa}=j_{sa}+\mathbb{k}_1}^n \sum_{j_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{n_{sa}+1} \sum_{j_{sa}=j_{sa}}$$

$$\frac{(n_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})! \cdot (n - \mathbb{k})! \cdot (j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D < n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa}^{sa} \wedge$$

$$j_{ik} + j_{sa}^{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D > n < n \wedge l - \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\{s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \left(\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left. \frac{(D + j^{sa} - l_{sa} - 1)!}{(D + j^{sa} - n - l_{sa} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \\
& \left(\sum_{k=1}^{(j^{sa}+l_{sa}-j_{sa}-1)} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(j^{sa}+l_{sa}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left. \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \right)
\end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{n+j_{sa}-s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_2} \sum_{(j_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - j_{ik} - s - l_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^{ik} - j_{ik} - 2 \cdot j_{sa})!}$$

$$\frac{(j_{sa} - 2)!}{(l_s + j_{sa} - j_{ik} - 2)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D - \mathbf{n} < n \wedge I = j_{sa} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik} j^{sa}}^{ISO} = \left(\sum_{k=1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^{n+j_{sa}^{ik}-j_{sa}-1} \sum_{(j_{ik}=l_{sa}-j_{sa}^{ik}-D-1)}^{n+j_{sa}^{ik}-j_{sa}-1} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right) \\
& \sum_{n_i=n+\mathbb{k}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=n-j^{sa}+1}^{n_{sa}=n-j^{sa}+1} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} + j^{sa})!} \cdot \\
& \frac{(n_i - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - n - j_{sa} - s)!}{(D + j_{sa} - n - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik})) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) +$$

$$\begin{aligned}
& \left(\sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n - j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{sa}^{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(n_i + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik})) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$j_{sa}^{iso} = \left(\sum_{k=1}^{j_{sa}^{ik} - j_{sa} - s} \sum_{j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}} (j_{ik}-2)! \cdot (n_i - n_{ik} - \mathbb{K}_1 + 1)! \cdot \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} \right) +$$

$$\begin{aligned}
& \left(\sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} j^{sa}=l_i+n+j_{sa}-j_{sa}^{ik}$$

$$\sum_{n=n+l_k}^n \sum_{(n_{is}=n+l_k)}^{(n_i+l_k+1)} j_{ik}$$

$$\sum_{n_{ij}=n_{is}+j_{sa}^{ik}-l_{k_1}+j_{sa}-l_{k_2}}^{(n_i+l_k+1)} j_{ik}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(n + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > n - n + 1 \wedge$$

$$j_{ik}^{ik} + 1 \leq j_{ik} < j^{sa} + j_{sa} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{ik} \leq n + j_{sa} - j_{sa} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge l = l_k) \wedge$$

$$j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, l_{k_2}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \leq s \wedge s = s + l_k \wedge$$

$$l_{k_z}: z = 2 \wedge l_k = l_{k_1} + l_{k_2}) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)} j^{sa}=l_i+n+j_{sa}-D-s$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{sa} - 1)!} \cdot \\
& \frac{(n + j_{sa} - \mathbf{n} - s)!}{(n + j^{sa} - \mathbf{n} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik} - j_{sa}^{ik} - j_{sa})}^{(j_{ik} - j_{sa}^{ik} - j_{sa})} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - 1)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{n + j_{sa} - s} \frac{(n_{ik} - j_{ik} - \mathbb{k}_1 + 1) \cdot (n_{sa} - j_{sa} - \mathbb{k}_2)}{(n_{ik} - j_{ik} - \mathbb{k}_1 + 1) \cdot (n_{sa} - j_{sa} - \mathbb{k}_2)} \cdot \frac{(n_{ik} - j_{ik} - \mathbb{k}_1 - 1)!}{(n_{ik} - j_{ik} - 2)! \cdot (n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - j_{sa} - 1)!}{(n_{sa} - j_{sa} - 1)! \cdot (n_{sa} - j_{sa} - 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{n + j_{sa} - s} \frac{(n_{ik} - j_{ik} - \mathbb{k}_1 + 1) \cdot (n_{sa} - j_{sa} - \mathbb{k}_2)}{(n_{ik} - j_{ik} - \mathbb{k}_1 + 1) \cdot (n_{sa} - j_{sa} - \mathbb{k}_2)} \cdot \frac{(n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}{(n_{ik} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - j_{sa} - 1)!}{(n_{sa} - j_{sa} - 1)! \cdot (n_{sa} - j_{sa} - 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} +$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - j_{sa} - l_{sa} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}-s)} \sum_{(j_{ik}=l_i+j_{sa}^{ik}-D-j_{sa}^{ik})} \sum_{(n_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - j^{sa} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=l_s+n+j_{sa}-D-1}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2+j_{sa}^{ik}-j_{sa})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_{ik}-n_{sa}-1)!}{(j_{ik}-2)! \cdot (n_i-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-l)!}{(n_i-n-l)! \cdot (n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j}^{is} &= \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\ &\sum_{i=n+\mathbb{K}}^{(n_i-n_{ik}-\mathbb{K}_1+1)} \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ &\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{ik} - 1 > l_i \wedge l_{sa} - s = l_i \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge s = s - \mathbb{k} \wedge$$

$$\mathbb{k}_{z_1} = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{\text{ISO}} &= \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^s (n_i - n + D - s)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{n+l_{sa}-s} \Delta_{(n+l_{sa}-s-j_{sa}^{ik}-j_{sa})}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{n+l_{sa}-s} \sum_{(n+l_{sa}-s-j_{sa}^{ik}-j_{sa})}^{n+l_{sa}-s} \Delta_{(n+l_{sa}-s-j_{sa}^{ik}-j_{sa})}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_1}^{n+l_{sa}-s} \sum_{(n+l_{sa}-s-j_{sa}^{ik}-j_{sa})}^{n+l_{sa}-s} \Delta_{(n+l_{sa}-s-j_{sa}^{ik}-j_{sa})}$$

$$\frac{(n_i + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa}^{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n + D - s)! \cdot (\mathbf{n} + j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa} - s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_i = D - \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} - 1 \leq j_{ik} \leq j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa}^{ik} \leq j^{sa} \leq j_{ik} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq j_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$j_{ik, j_{sa}}^{sa} = \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}^{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{\mathbf{n}+j_{sa}-s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-l_{sa}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-l_{sa})}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - j_{sa} - l)!} \cdot$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - l_i)!}$$

$$\frac{(D + j^{sa} + s - n - l_i - j_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$(D \geq n < n \wedge l = l_k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{sa}^{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \\ & \frac{(n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-l_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \frac{(n_{ik}-j_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}-j_{ik}-n_{sa}-j_{sa})!} \cdot \\ & \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \\ & \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D+j_{sa}-l_{sa}-s)!}{(j_{sa}-\mathbf{n}-l_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} \cdot \\ & \sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\ & \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-l)!}{(n_i-\mathbf{n}-l)! \cdot (\mathbf{n}+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \leq 2 \wedge \mathbb{k} = \mathbb{k}_1 \vee \mathbb{k}_2) \Rightarrow$$

$$j_{ik}, j^{sa} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_{ik}+n+j_{sa}-D-j_{sa}^{ik}}^{n+j_{sa}-s} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{\sum_{i=1}^n (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{ik} = l_i + \mathbf{n} + j_{sa} - D - s}^{n + j_{sa} - s}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n (n_i - \mathbb{k} + 1) \sum_{j_{sa}^{ik} = j_{sa} - j_{ik}}^{(n_i - \mathbb{k} + 1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s = D - \mathbf{n} + 1 \wedge j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \bigg) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{ik}+n-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{ik}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-j_{sa}^{ik}}^{(n_{ik}+j_{ik}-j^{sa}-j_{sa}^{ik})} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} - 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^n \sum_{(j_{ik}=\mathbf{l}_{ik}+\mathbf{n}-D)}^{(j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\infty} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(j_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - j_{sa} - l)!} \cdot \\
& \frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - l_i)!} \cdot \\
& \frac{(D + j^{sa} + j_{sa} - n - l_i - j_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\
& (D < n < n \wedge l_s > D - n + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge \\
& s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge \\
& s \geq 5 \wedge s = s + \mathbb{k} \wedge \\
& \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow
\end{aligned}$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n=n+l_k}^n \sum_{(n_{is}=n+l_k)}^{(n_{is}+1)} \sum_{j_{ik}}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(n + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + l_i - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n + 1 \wedge l_s = D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n + 1 \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n + 1 \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - l_{sa})} \sum_{(j_{ik} = l_{sa} - n - D)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + j_{sa}^{ik} - j_{sa}}^{n + j_{sa} - s} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik}}^{(n_i - j_s + 1)} \sum_{n_{ik} = n_{is} - j_{ik} + 1}^{j_{ik} - \mathbb{k}_1 + 1} \sum_{n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2}^{j_{sa} + 1} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik})! \cdot (j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} - \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - l_{sa})} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa} = l_i + n + j_{sa} - D - s}^{n + j_{sa} - s} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik}}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - s)!}.$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = n - 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{0, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, \dots, j_{sa}^{ik}\} \wedge$$

$$\geq 5 \wedge j_{sa}^s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k}_Z = \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - D}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)}$$

$$((D_{\text{max}} \leq n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik} j_{sa}}^{iso} = & \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{(n + j_{sa} - s)} \sum_{(j_{sa} = l_{sa} + n - D)}^{(n + j_{sa} - s)} \\ & \sum_{(n_i = n + \mathbb{K}_1)}^{(n_i = n + \mathbb{K}_1 - 1)} \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)} \sum_{(n_{sa} = n - j_{sa} + 1)}^{(n_{sa} = n - j_{sa} + 1)} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(n_i - 2)! \cdot (n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\ & \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{(n + j_{sa} - s)} \sum_{(j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(n + j_{sa} - s)} \\ & \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{(n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2)} \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - j_{sa} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}-s)} \sum_{(j_{ik}=l_i+l_{sa}+j_{sa}^{ik}-D-j^{sa})} \sum_{n_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - j^{sa} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(D > \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K}$$

$$\mathbb{K} = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = l_{ik} + n - D)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \\ &\sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)}} \sum_{(j_{sa}=j_{ik}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}^{ik}-s)} \\
& \sum_{n_i=\mathbb{n}+\mathbb{k}_1}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-1)} \sum_{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{n_{ik}+j_{ik}-j_{sa}} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 + 1)!}{(j_{ik} - \mathbb{k}_1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{sa} - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{()}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()}}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) =$$

$$j_{sa}^{ik} = \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + l_i)!}$$

$$\frac{(D + j^{sa} + s - n - l_i - j_{sa})!}{(D + j^{sa} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s$$

$$l_s - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} < D + l_{ik} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^i, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik})!}{(l_{sa} - j_{sa}^{ik} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik})} \sum_{(j_{ik}=l_i+n_{ik}^{ik}-D-s)}^{(n+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i - \mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} \wedge \mathbf{n} \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}-j_{sa}^{ik}+1)} \sum_{j_{sa}=j_{sa}^{ik}+1}^{j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-n_{ik}=\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-\mathbb{k}_2} \\ & \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \\ & \frac{(n_{sa}-1)!}{(j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ & \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \left. \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} \right) + \\ & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j_{sa}=j_{sa}+2}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \left. \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \right) \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{l_{sa}} \sum_{j_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}} \\
& \sum_{n_i=n}^n \sum_{n_{ik}=n+l_{ik}-j_{ik}+1}^{(n_{ik}+1)-n+l_{ik}-j_{sa}-l_{k2}} \sum_{n_{sa}=n-j_{sa}+1}^{(n_{ik}+1)-n+l_{ik}-j_{sa}-l_{k2}} \\
& \frac{(n_{ik} - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - n_{ik} - j_{ik} - l_{k1} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(n_{sa} - j_{ik} - n_{ik} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{()} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}-j_{sa}}^{()} \sum_{j_{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=n+l_{k}}^n \sum_{n_{is}=n+l_{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)}
\end{aligned}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (s + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j^{s} < j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{\text{iso}} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \\
& \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n+\mathbb{k}-j_{sa}+1)}^{(n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2)} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_i - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \right. \\
& \sum_{k=1}^{(l_s+j_{sa}^{ik}-k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}^{ik}-k)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = j_{sa} + 1} \\ &\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j^{sa} = l_s + j_{sa}}^{l_{sa}} \\
& \sum_{n_i = n + k}^n \sum_{(n_{ik} = n + k_2 - j_{ik} + 1)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa}} \\
& \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - k_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - 1)!}{(l_{sa} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{()} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j^{sa} = j_{sa} + 1}^{l_s + j_{sa} - 1} \\
& \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - k_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - k_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_{2, \dots, j^{sa}}^{iso} = & \left(\sum_{k=1}^{j_{ik} - j_{sa} + j_{sa}^{ik} - j_{sa}} \sum_{j_{sa}^{ik} - j_{sa} + 1}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = j_{sa} + 1}^{j^{sa} + j_{sa} - j_{sa}^{ik}} \right. \\ & \sum_{n_{ik} = n + \mathbb{k}}^{(n_i - n_{ik} - \mathbb{k}_1 + 1)} \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \sum_{n_{sa} = n - j^{sa} + 1}^{j^{sa} - j_{ik} - 1} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\ & \left(\sum_{k=1}^{j^{sa} + j_{sa}^{ik} - j_{sa} - 1} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = j_{sa} + 2}^{j^{sa} + j_{sa} - j_{sa}^{ik}} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - n - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) -
\end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-\mathbb{k}_1-j_{sa}^{ik}+j_{sa})!}{(n_i-n-1)! \cdot (n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-j_{ik}-s-\mathbb{k}_1-j_{sa}^{ik}+j_{sa})!} \cdot$$

$$\frac{(l_s-j_s)!}{(l_s+j_{sa}^{ik}-j_{ik}-j_{sa}^{ik}-1)! \cdot (j_{ik}+j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(D-j_s)!}{(D+j^{sa}+s-n-j_{sa}^{ik}-j_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa}^{ik} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} > l_{ik} \wedge$$

$$l_{sa} \leq l_s + j_{sa} - n \wedge$$

$$(D \geq n < n \wedge l_s - \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa} < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 1 \wedge s = s + \mathbb{k}_1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (D + j_{sa} - j^{sa} - s)!} + \\
& \frac{(j^{sa} + j_{sa}^{lk} - 1)! \cdot l_s + j_{sa} - 1}{\sum_{k=1}^{j^{sa} + j_{sa}^{lk} - 1} \sum_{j_{ik}=j_{sa}^{lk}+1}^{j_{ik}-j_{sa}^{lk}} \sum_{j_{sa}=j_{sa}+2}^{j_{sa}+j_{sa}^{lk}-1}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{n_{ik}=\mathbf{n}-j_{ik}+1}^{n_i-j_{ik}-\mathbb{k}_1-1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{lk} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{lk} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{lk} - 1)} \sum_{j_{ik}=j_{sa}^{lk}+1}^{j_{ik}-j_{sa}^{lk}} \sum_{j_{sa}=l_s+j_{sa}}^{l_{sa}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(n_{sa} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}} \right. \\ \left. \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right. \\ \left. \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\ \left. \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right. \\ \left. \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right)$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (D + j_{sa} - j^{sa} - 1)!} \cdot$$

$$\sum_{k=1}^{(l_{ik}-k+1)} \sum_{j_{sa}^{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}} \sum_{j_{sa}^{ik}=j_{sa}^{ik}}^{j_{sa}^{ik}} (n_{ik} - j_{sa}^{ik})!$$

$$\sum_{j_{sa}^{ik}=n+\mathbb{k}}^{n} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{j_{sa}^{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + j_{sa}^{ik} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D > \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa}^{ik} - \mathbb{k}_2}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \right. \\ \frac{(n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa}^{ik} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \right. \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \left. \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \right)$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + \mathbb{k}_1, \dots, j_{ik} + \mathbb{k}_1 - j_{sa}^{ik}}$$

$$\sum_{\mathbb{k} \geq 0}^{(n_i - j_s + 1)} \sum_{\mathbb{k} \geq 0}^{(n_i - j_s + 1)} (n_{is} + \mathbb{k} + j_{sa}^{ik} - j_{ik})$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1}^{(n_{is} + j_{sa}^{ik} - \mathbb{k}_1)} \sum_{(n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq 1 \wedge l_s \leq s - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{sa} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_{ik} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + s - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D + s - \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik} j^{sa}}^{\text{iso}} &= \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{l_{sa}} \\
 &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \\
 &\frac{(n_{ik} - j_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa} - 1)!} \cdot \\
 &\frac{(n_{sa} - 1)!}{(n_{sa} - j^{sa} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
 &\frac{(j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
 &\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n_i - j_s + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{l_{sa}} \\
 &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
 &\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - j_s + 1)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(n_i - j_s + 1)} \\
 &\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
 &\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} = & \left(\sum_{k=1}^n \sum_{(j_{ik} = j_{sa}^{ik} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j_{sa}^{sa} = l_{sa} + \mathbf{n} - D}^{l_s + j_{sa} - 1} \right. \\ & \sum_{i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\ & \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j_{sa}^{sa} = l_{sa} + \mathbf{n} - D} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - n - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=l_s+j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) -
\end{aligned}$$

$$\sum_{k=1}^{\sum} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}+j_{sa}-j_{sa}^{ik})} j^{sa}=l_i+n+j_{sa}-D-s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\sum} \sum_{(n_{sa}=n_{ik}+j_{ik}^{ik}-j_{sa}-\mathbb{k}_2)}^{(l_{ik}+j_{sa}-j_{sa}^{ik})}$$

$$\frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-\mathbb{k}_1-\mathbb{k}_2-1)!}{(n_i-n-I)! \cdot (n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-j_{ik}-s-\mathbb{k}_1-\mathbb{k}_2-1)!} \cdot$$

$$\frac{(l_s-\mathbb{k}_1-\mathbb{k}_2-1)!}{(l_s+j_{sa}^{ik}-j_{ik}-\mathbb{k}_1-\mathbb{k}_2-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(D-n-I)!}{(D+j^{sa}+s-n-\mathbb{k}_1-j_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_{ik} \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n \leq l_{sa} \leq n + l_{ik} + j_{sa} - l_{sa} \wedge$$

$$(D \geq n < n \wedge l_{sa} - \mathbb{k} > 0) \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa} < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq l_{sa} - s = s + \mathbb{k}_1 + 1$$

$$\mathbb{k}_z: z = 2 \wedge (\mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1}^{\sum} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - s)} \sum_{(j_{ik} - j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{n-D}^{n + j_{sa} - s} \right) \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_{ik}-j_{ik}+1)}^{(n_i - j_{ik} - \mathbb{k}_1 - 1)!} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{n + j_{sa} - s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n + j_{sa} - s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{sa}^{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D - j_{sa} - l_{sa} - s)!}{(n + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_i)} \sum_{(j_{ik}=\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_i)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_i)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \vee$$

$$(D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \vee$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}+j_{sa}-j_{sa}^{ik})} \sum_{j_{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) +$$

$$\begin{aligned}
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{\sum_{i=1}^n (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{ik} = l_i + n + j_{sa} - D - s}^{l_s + j_{sa} - 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_i = \mathbb{k} + 1) \atop (n_{is} = \mathbb{k} - j_{ik})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(l_s - 2)!}{(n + j_{sa}^{ik} - j_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + j_{sa}^{ik} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n - l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \Bigg) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa})}^{(l_{ik})} \sum_{j_{sa} = j_{sa}^i + j_{sa} - j_{sa}^{ik}} \right. \\ \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{j_{sa} = l_{sa} + \mathbf{n} - D}^{\mathbf{n} + j_{sa} - s} \right. \\ \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\infty} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{(j_{sa}=j_{ik}+j_{sa}^{ik}+1)}^{n-j_{sa}-s} \Delta_{(j_{sa}=j_{ik}+j_{sa}^{ik}+1)} \\
& \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_i-j_{ik}+\mathbb{k}_1+1)}^{(n_i-j_{ik}+\mathbb{k}_1+1)} \sum_{(n_{ik}=n_i-j_{ik}+\mathbb{k}_1)}^{n_{ik}+j_{ik}-\mathbb{k}_2} \sum_{(n_{sa}=n-j^{sa}+1)}^{n_{sa}-j_{ik}-1} \\
& \frac{(n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}{(j_{ik} - \mathbb{k}_2)! \cdot (n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{sa} - j_{ik} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{\infty} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_{is}=n+\mathbb{k}_1+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 0 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}^s, \dots, j_{sa}^s\}$$

$$s \geq 5, \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbf{s} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{\text{iso}} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{n+j_{sa}-s} \sum_{j_{sa}=j_{ik}+1}^{n+j_{sa}-s} \frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - j_{sa}^{ik} - j_{ik} - 1)! \cdot (n - j_{sa} - j^{sa} - s)!} \cdot$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s - (j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - j_{sa} < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\{j_{sa}^s, \dots, j_{sa}^i, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_{ik})}^{(n_i+\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_2}^{(\quad)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(\quad)} = n_{ik} - j^{sa} - \mathbb{k}_2$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(j_{sa}^{ik} + j_{sa} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} - 1 \wedge l_s \leq D - \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa}^{ik} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} \leq l_{sa} \leq D - l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D - \mathbf{n}) \leq \mathbf{n} \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^i, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{l_s + j_{sa} - 1} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_s + j_{sa}}^{n + j_{sa} - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{\substack{l_{ik}+j_{sa}-j_{sa}^{ik} \\ j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}}$$

$$\sum_{\substack{n_i=\mathbf{n}+\mathbb{k} \\ (n_{is}=1)}}^n \sum_{\substack{(n_i+\mathbb{k}+1) \\ (n_{is}=1)}}^{(n_i+\mathbb{k}+1)} \sum_{(n_{is}=1)}^{(n_{is}=1)} (n_{is}=1) - j_{ik})$$

$$\frac{(n_i + \mathbb{k})^{j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1})!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} - 1 \wedge$$

$$j_{ik}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa}^{sa} - 1 \wedge$$

$$l_{ik} - j_{sa}^{sa} + 1 = l_s \wedge l_{sa}^{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} - l_{sa} \leq D - l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D - \mathbf{n} - \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s, \{j_{sa}^{sa}, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_{ik})}^{(n_i+\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_2}^{(n_{ik}=\mathbf{n}+j_{sa}^{ik}-\mathbb{k}_2)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa}^{ik} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D - \mathbf{n}) \leq n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^i, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{iso} = & \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} + j^{sa})!} \cdot \\
& \frac{(n - n + j^{sa} - n - 1)!}{(n - n + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n_{sa} - l_{sa} - s)!}{(D - j^{sa} - n - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z^{S_{j_{ik}, j_{sa}}} = & \sum_{k=1}^{(\quad)} \sum_{j_{ik} = j_{sa} + j_{sa}^{ik}}^{(\quad)} \sum_{j_{sa} = j_{sa} + 1}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})}^{(\quad)} \sum_{j_{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{l_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik}}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D + j_{sa} - n - l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D - n < n \wedge I = 0 > 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^s - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2, \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik} j^{sa}}^{iso} = \sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=l_{sa}+n-D}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{s=1}^{(l_{ik} - j_{sa}^{ik} - D - j_{sa})} \sum_{j_{sa}^{ik} = j_{sa}^{ik} - D - j_{sa}}^{n + j_{sa} - s} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=l_{ik}+n+j_{sa}^{ik}-D-s)} j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (j_{ik} + j_{sa}^{ik} - 1)!}{(l_s + j_{sa}^{ik} - j_{ik})! \cdot (j_{ik} + j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n - 1)!}{(D + j_{sa} + s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{ik} \leq n + l_s + j_{sa}^{ik} - n \wedge$$

$$(D \geq n < n \wedge \mathbb{k}_1 + \mathbb{k}_2 > 0)$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa} < j_{sa}^{ik} - 1 \wedge$$

$$s \cdot \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbb{k}_1, s = s + \mathbb{k}_1$$

$$\mathbb{k}_z: z = 2, \dots = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=l_{ik}+n-D)} j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{ik} = 0}^{l_{ik} + \mathbf{n} - l_s - j_{sa}^{ik} - 1} \sum_{j_{sa} = 0}^{n_{sa} - j_{sa}^{ik}}$$

$$\sum_{i_s = \mathbf{n} + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik}}$$

$$\sum_{k = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(\quad)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}$$

$$\frac{(n_i - \mathbf{n} - 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} - \mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{\text{ISO}} = \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_{is}+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \frac{(j_{ik}-2)! \cdot (n_i-j_{ik}-\mathbb{k}_1+1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} \cdot \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{is}+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()} \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-I)!}{(n_i-n-I)! \cdot (n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} \text{iso}_{j^{sa}} = & \sum_{k=1}^{(n+j_{sa}-s)} \sum_{j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s}^{(n-j_{ik}-\mathbb{K}_1+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \sum_{i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ & \sum_{k=1}^{(\mathbf{l}_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_s + j_{sa}^{ik} - 1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(\mathbf{l}_s + j_{sa}^{ik} - 1)} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - s)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - l_{ik} \wedge l_i - j_{sa} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + j_{sa}^{ik} + j_{sa}^{ik} - \mathbf{n} - 1$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} - j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbf{n} \wedge s = s + \mathbb{k}$$

$$z: z = z + \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{n+j_{sa}-s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\sum_{i=1}^{\mathbf{n}} (j_{ik} - j_{sa}^{ik} - 1)} \sum_{l=1}^{\sum_{i=1}^{\mathbf{n}} (j_{ik} - j_{sa}^{ik} - 1)} \sum_{m=1}^{\sum_{i=1}^{\mathbf{n}} (j_{ik} - j_{sa}^{ik} - 1)}$$

$$\sum_{n_{is}=n_{ik}+j_{sa}-D-j_{sa}^{ik}-j_{ik}+1}^{\sum_{i=1}^{\mathbf{n}} (j_{ik} - j_{sa}^{ik} - 1)} (n_{is} - n_{ik} + j_{sa} - j_{sa}^{ik} - j_{ik} + 1)$$

$$\sum_{n_{is}=n_{ik}+j_{sa}-D-j_{sa}^{ik}-j_{ik}+1}^{\sum_{i=1}^{\mathbf{n}} (j_{ik} - j_{sa}^{ik} - 1)} \sum_{n_{sa}=n_{ik}+j_{sa}-D-j_{sa}^{ik}-j_{ik}+1}^{\sum_{i=1}^{\mathbf{n}} (j_{ik} - j_{sa}^{ik} - 1)}$$

$$\frac{(n_i + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa}^{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i + j_{sa} - l)! \cdot (\mathbf{n} + j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} - n_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(j^{sa}=l_i+n+j_{sa}-D-s)}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} + j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(n_i + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik})} \sum_{(j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1)}^{n+j_{sa}-s} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\mathbb{k}_Z: Z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = l_{ik} + n - D)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{n + j_{sa} - s}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + l_{sa} - n_{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - s)} j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = n - j_{sa}^{ik} - j_{ik})}^{(n_i - \mathbf{n} + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - \mathbf{n} + 1)} \sum_{n_{ik} = j_{sa} - \mathbb{k}_2}^{(n_i - \mathbf{n} + 1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + l_i - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} &= \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^a+j_{sa}^{ik}-j_{sa})}^{l_{sa}} \sum_{j_{sa}^a=j_{sa}+1}^{l_{sa}} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})} \\ &\frac{(n_i-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_i-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ &\frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}-j_{ik}-n_{sa}-j_{sa})!} \cdot \\ &\frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ &\frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ &\frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \\ &\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^a+j_{sa}^{ik}-j_{sa})}^{l_{sa}+j_{sa}-1} \sum_{j_{sa}^a=j_{sa}+1}^{l_{sa}+j_{sa}-1} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{sa}+1)} \\ &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\ &\frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-l)!}{(n_i-n-l)! \cdot (n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\ &\frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_z j_{sa}^{ik} &= \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \\ &\sum_{i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ &\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{sa}} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq \mathbf{n} + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa} < j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$j_{sa}^{ik} \geq 5 \wedge j_{sa}^{ik} > s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - s)!}{(l_s + j^{sa} - \mathbf{n} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s + j^{sa} - k)} \sum_{(n_{sa}=\mathbf{n}-j_{sa}^{ik}+1)}^{(l_s + j^{sa} - k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_s+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i - \mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D - \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik} j_{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_{ik})} j_{sa}^{sa=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}^{sa=j_{ik}+j_{sa}-j_{sa}^{ik}}}^{(n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)} \frac{(n_i - n_{is} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{is} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{sa=j_{ik}+j_{sa}-j_{sa}^{ik}} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa}^{sa})!} \cdot \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_{ik})} \sum_{j_{sa}^{sa=j_{ik}+j_{sa}-j_{sa}^{ik}}}^{(\mathbf{l}_{ik})}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_{ik}-\mathbb{k}_1+1)}$$

$$\sum_{n_{ik}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=\mathbf{n}_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)}^{(\mathbf{l}_{ik})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} j_{ik}, j^{sa} &= \sum_{k=1}^O \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}. \end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - j_s + 1)} \sum_{(n_{is} = n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)}^{(n_i - j_s + 1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - n_{is} - s - j_{sa} - l_{sa} - I)!}{(n_i - n - I)! \cdot (n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - n_{is} - s - j_{sa} - l_{sa} - I)!} \cdot$$

$$\frac{(n_i - j_s - 2)!}{(l_s + j_{sa} - j_{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - n_i)!}{(j^{sa} + s - n - l_i - j_{sa}^{ik} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s < D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa}^{ik} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq n + j_{sa} - s \wedge$$

$$l_{sa}^{ik} - j_{sa}^{ik} + 1 \leq l_{sa} \wedge l_{sa}^{ik} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D - n - n < l_i \leq l_i + l_s + s - 1 \wedge$$

$$(D \geq n \wedge n \wedge I = \mathbb{k} > 0) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} - j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f^z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j_{sa}^{ik} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{(j_{ik}=l_i+n_{ik}^{ik}-D-s)}^{(l_{sa}+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_s+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i - \mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((\mathbf{n} - \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{sa}, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_2: \{j_{sa}^{sa}, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = j_{sa} + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbf{n}} \sum_{j_{ik}=j_{sa}^{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}_1}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbf{n}} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}^{ik}-j_{sa}}^{()} \sum_{j_{sa}=j_{sa}+1}^{l_s+j_{sa}-1}
\end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_1)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{sa} - l_i)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1}^{(\mathbf{l}_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}} \sum_{j_{sa}=j_{sa}^{ik}-j_{sa}}^{\mathbf{l}_{sa}} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1)+1} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_i-j_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-1)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}^{ik}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \frac{(\mathbf{l}_{ik}-j_{sa}^{ik}-1)!}{(\mathbf{l}_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(\mathbf{l}_{sa}+j_{sa}^{ik}-\mathbf{l}_{ik}-j_{sa})!}{(j_{ik}+\mathbf{l}_{sa}-j_{sa}-\mathbf{l}_{ik})! \cdot (j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} - \sum_{k=1}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j_{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1)) \wedge$$

$$(D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{I} = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+1)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+j_{sa}}^{(n_{ik}+j_{ik}-j^{sa}-l_{k_2})} \\
& \frac{(n_i - n_{ik} - l_{k_1} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - l_{k_1} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_i - n_{sa} - 1)!}{(n_i + j^{sa} - n_{sa} - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - j^{sa} - l_{sa} - s)!}{(D - j^{sa} - n - l_{sa} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-l_{k_1}}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2})}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$fz S_{j_{ik}}^{iso} = \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{\sum} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_s+j_{sa}-1)} j^{sa}=l_{sa}+n-D$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\sum} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(l_s+j_{sa}-1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - n - l)! \cdot (D + j^{sa} + s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n \leq l_{sa} \leq n + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} - s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + j_{sa} - n \leq l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = l_{sa} + n - D}^{n_{ik} + j_{ik} - j^{sa} - 1} \\
 &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - 1} \\
 &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \\
 &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\
 &\frac{(j_{ik} + l_{sa} - j^{sa} - l_{ik})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
 &\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_s + j_{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \\
 &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}
 \end{aligned}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^{\mathbf{n}} (l_{ik} - j_{sa}^{ik} - 1)}$$

$$\sum_{i=1}^{\mathbf{n}} \sum_{k=1}^{\mathbf{n} + l_{ik} - j_{sa}^{ik} - 1}$$

$$\sum_{i=1}^{\mathbf{n}} \sum_{k=1}^{\mathbf{n} + l_{ik} - j_{sa}^{ik} - 1}$$

$$\frac{(n_i + 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - j_{sa}^{ik} - j_{ik} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^{ik} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$l_{sa} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - j_{sa} - 1)} \sum_{j_{ik} = l_{sa} + 1}^{(n - j_{ik} - \mathbb{k}_1 + 1)} \sum_{j_{sa} = l_{sa} + n - D}^{(n - j_{sa} - \mathbb{k}_2)} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(n_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(n_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa}}^{n + j_{sa} - s} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa} - j^{sa} + 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - j_{sa} - j^{sa} + 1)! \cdot (D + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_{ik}-k+1+j_{sa}^{ik}-D-j_{sa}^{sa})} \sum_{(n_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{sa}-j_{sa}^{ik}-\mathbb{k}_1}^{(l_{ik})} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - j_s - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(D \geq \mathbf{n} \wedge \mathbf{n} \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_s \wedge l_i + j_{sa} - s - j_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{l_1}, \dots, j_{sa}, \dots, i_s\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_{ik} + n - D)} \sum_{j^{sa} = l_{sa} + n - D}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j^{sa}+n-D}^{j_{ik}=n-D} \sum_{j_{sa}=j_{sa}^{ik}+1}^{n+j_{sa}-s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_{sa}-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1-1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(l_{ik})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} - 1 > l_s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + j_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - (\mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik} j_{sa}}^{iso} = & \sum_{i=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{j_{ik} = \mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - i}^{n + j_{sa} - s} \sum_{j_{sa} = \mathbf{n} - D}^{n + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - \mathbb{k}_1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{\mathbb{k}} \sum_{j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa}}^{(l_{ik})} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot \\
& \frac{(\mathbf{n} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s+j_{sa}-1)} \sum_{j_{ik}=\mathbf{n}+j_{sa}^{ik}-D-s}^{(l_s+j_{sa}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}-1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{\left(\sum_{j_{ik}=j_{sa}^{ik}} \right)} \sum_{j_{sa}=j_{sa}^{ik}}^{l_{sa}} \right. \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \right. \\ \left. \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \right) +$$

$$\left(\sum_{k=1}^{\left(\sum_{j_{ik}=j_{sa}^{ik}} \right)} \sum_{j_{sa}=j_{sa}^{ik}}^{l_{sa}} \right. \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{l_{sa}=1}^{n_{sa}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_{sa}-\mathbb{k}_1+1)}^{(\)} \sum_{n_{sa}=n_{sa}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{sa}^{ik} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(n + s - n - l_i)!}{(n + s - n - l_i)! \cdot (n - s)!}.$$

$$D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} =$$

$$l_{ik} \leq D + j_{sa}^{ik} - j_{sa} \wedge l_i \leq D + s - n$$

$$(D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{ik}, \mathbb{k}_1, j_{sa}^{ik} - j_{sa}, \dots, j_{sa}^{ik}\} \wedge$$

$$s \geq 5 \wedge s = n + \mathbb{k} \wedge$$

$$s = n + \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\)} \sum_{j_{sa}=j_{sa}}^{l_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - s - 1)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa} - s - 1)!} \cdot \\
& \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j^{sa}=j_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\cdot)} \\
& \frac{(n_i - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(l_{sa} - j_{sa}^{sa} - s - 1) \leq \mathbf{n} \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}^{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i - n_{ik} - \mathbb{k}_1 - j_{sa}^{ik} + 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{sa} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa}^{ik} + 1)!} \cdot \frac{(n_{sa} - j_{sa}^{ik} - 1)!}{(n_{sa} - j^{sa} - j_{sa}^{ik} - 1)! \cdot (n - j^{sa})!} \cdot \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \cdot \sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_{sa}^{sa}=j_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n - \mathbb{k})! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{ik}-j_{sa}+\mathbb{k}_2}^{(n_{ik}+j_{ik}-j_{sa}+\mathbb{k}_2)} \\ &\frac{(n_i-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_i-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ &\frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \\ &\frac{(n_{sa}-1)!}{(n_{sa}+j_{ik}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \\ &\frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ &\frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-l_{sa})! \cdot (\mathbf{n}-s)!} - \\ &\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\ &\frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-s)!} \end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{sa}} \sum_{j_{sa}=j_{sa}}^{l_{sa}} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}} \sum_{j_{ik}=j_{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} - l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n})) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_s \leq D - j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{n} - \mathbb{k} < 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f^z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{sa}^{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(n + j_{sa} - n - s)!}{(n + j^{sa} - n - 1)! \cdot (n - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_{sa}^{sa}=j_{sa}}^{\binom{()}{j_{sa}^{sa}=j_{sa}}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - j^{sa} - j_{sa}^{ik} - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} + j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j_{sa})!}{(n_{sa} - j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(j_{sa} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \right) + \\ & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}+1}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1) l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \right) \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{sa})} \frac{(n_i - j_{ik} - \mathbb{k}_1 + 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-\mathbb{k}_2)}^{(n_{ik}+j_{ik}-\mathbb{k}_2)} \frac{(n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}}^{()} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} S_{j_{ik}, j_{sa}}^{\text{iso}} = & \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}} \right. \\ & \sum_{n_i=\mathbb{K}}^{(n_i-j_{sa}+\mathbb{K}_1+1)} \sum_{n_{ik}=\mathbb{K}_2-j_{ik}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (n - s)!} \right) + \\ & \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}+1}^{l_{sa}} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{sa}^{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j^{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{\binom{D}{s}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1)}^{\binom{D}{s}} \sum_{n_{sa}=\mathbf{n}+j_{ik}-j^{sa}-\mathbb{k}_2}^{\binom{D}{s}} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s = \mathbf{n} \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} &= \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^s=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+\mathbb{k}_2}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \\ &\frac{(n_i-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_i-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ &\frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \\ &\frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \\ &\frac{(n_i+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-l_{sa})! \cdot (\mathbf{n}-s)!} - \\ &\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^s=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(\quad)} \\ &\frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\ &\frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-s)!} \end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^s + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^s \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} -$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \dots + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j_{sa}^{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j_{sa} - l_{ik})! \cdot (j_{sa} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} -$$

$$\sum_{k=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\cdot)} \sum_{n_{sa}=n-j_{sa}-\mathbb{k}_2}^{(\cdot)}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D + s - n - l_i)!}{(n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{sa}^s\} \wedge$$

$$s \geq 5, s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\cdot)} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\left(\sum_{k=1}^{j^{sa} + j_{sa}^{ik} - j_{sa} - j_{ik} - 1} \sum_{j_{ik}=l_s + n + j_{sa}^{ik} - 1}^{j_{ik} - l_s + n + j_{sa}^{ik} - 1} j^{sa} = l_{sa} + n -$$

$$\sum_{n_i=n+\mathbb{K}_2}^n \sum_{n_{ik}=n+\mathbb{K}_2+j_{ik}+1}^{j_{ik}-n+\mathbb{K}_2} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}-j_{ik}-j^{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - j_s - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{j^{sa} + j_{sa}^{ik} - j_{sa} - j_{ik} - 1} \sum_{j_{ik}=l_s + n + j_{sa}^{ik} - 1}^{j_{ik} - l_s + n + j_{sa}^{ik} - 1} \sum_{j^{sa}=l_i + n + j_{sa} - D - s}^{n + j_{sa} - s}$$

$$\sum_{n_i=n+\mathbb{K}_2}^n \sum_{n_{is}=n+\mathbb{K}_2+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (l_i + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$S_{j_{sa}^{ik}}^{j_{sa}^{ik}} = \left(\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)} \right.$$

$$\sum_{n_{ik}=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) + \\
& \left(\sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)} \sum_{j^{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \right. \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_1 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{(n + j_{sa} - s)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot
\end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})}$$

$$\sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})}$$

$$\sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})}$$

$$\frac{(n_i + 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - l - l)! \cdot (\mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$- j_{sa}^{ik} - 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \bigg) \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, \dots, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^n \sum_{\substack{j_{ik}=j_{sa}^{ik}+j_{sa}-j_{sa} \\ j_{sa}=l_{sa}+n-D}} \binom{n+j_{sa}-s}{j_{ik}-k_1+1} \sum_{n_i=n+k}^n \sum_{\substack{n_{ik}=n+k_2-j_{ik}+1 \\ n_{sa}=n-j_{sa}+1}}^{n_{ik}+j_{ik}-j_{sa}-k_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \left(\sum_{k=1}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j_{ik}=l_{ik}+n-D} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \sum_{n_i=n+k}^n \sum_{\substack{n_{ik}=n+k_2-j_{ik}+1 \\ n_{sa}=n-j_{sa}+1}}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{ik}+j_{ik}-j_{sa}-k_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \right)$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{(l_i=l_i+\mathbf{n}+j_{sa}-D)}^{(\quad)}$$

$$\sum_{n_i=n_i+\mathbb{k}}^{(j_{sa}+j_s+1)} (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})$$

$$\sum_{n_i=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - l - 1)! \cdot (\mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$(l_i - j_{sa}^{ik} - 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \bigg) \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, \dots, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D)}^{(n+j_{sa}^{ik}-s)} j_{sa}^{sa=j_{ik}+j_{sa}-k} \right. \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n_{sa} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-j_{sa})}^{n+j_{sa}-s} \sum_{j_{sa}^{ik}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{n_i-j_{ik}-\mathbb{K}_2+1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}^{ik}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-I)!}{(n_i-\mathbf{n}-I)! \cdot (\mathbf{n}+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D+j^{sa}+s-\mathbf{n}-j_{sa}^{ik}-j_{ik}-1)! \cdot (\mathbf{n}-j_{sa}-j^{sa}-s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^{s-\mathbb{k}_1}, j_{sa}^{ik}, \dots, j_{sa}^{i-\mathbb{k}_2}, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge \mathbf{s} = s - \mathbb{k} \wedge$$

$$\mathbb{k}_{z_1} = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} &= \sum_{k=1}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(j_{ik}=l_s+\mathbf{n}+j_{sa}^{ik}-D-1)}^{n+j_{sa}-s} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}
\end{aligned}$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik}, j^{sa}}^{iso} = & \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)}^{(n + j_{sa} - s)} j^{sa} = l_i + n + j_{sa} - D - s \\
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - j_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
 & \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{(n + j_{sa} - s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n=n+\mathbb{k}}^n \sum_{(n_{is}=n)}^{(n_i+\mathbb{k}+1)} \sum_{j_{ik}}^{(n_i+\mathbb{k}+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(n + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > n - n + 1 \wedge$$

$$j_{ik}^{ik} + 1 \leq j_{ik}^{ik} < j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq n + j_{sa}^{ik} - j_{sa} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq n < n - 1 = \mathbb{k} > 2) \wedge$$

$$j_{sa}^{ik} - j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq s \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=l_s+n+j_{sa}-D-1}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_s - j_{sa} - s)!}{(l_s + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^s=l_i+\mathbf{n}+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i - \mathbf{n} - 1)! \cdot (j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D - \mathbf{n} \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=\mathbf{l}_s+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{ik}+j_{ik}-\mathbb{k}_2)}^{(n_{ik}+j_{ik}-\mathbb{k}_2)} \\ & \frac{(n_i-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\ & \frac{(n_{ik}-j_{sa}-\mathbb{k}_2+1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}-j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa}-1)!}{(j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik}-j_{sa}^{ik}-1)!}{(\mathbf{l}_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} \cdot \\ & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\ & \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-I)!}{(n_i-\mathbf{n}-I)! \cdot (\mathbf{n}+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz^{j_{ik}, s} = \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{n+j_{sa}-s}^{n+j_{sa}-s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(n_{ik}-j_{sa}+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)!}{(l_s + j_{sa}^{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - 1)!}{(D + j^{sa} + s - n - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{ik} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k}_1 = 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{ik_1}, j_{sa}^{ik}, \dots, j_{sa}^{ik_2}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \geq 2 \wedge \mathbb{k} = \mathbb{k}_1 \vee \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{l_i=1}^{(n+j_{sa}^{ik}-s)} \sum_{j_{ik}=l_i}^{(j_{ik}-D-s)} \sum_{j_{sa}^{ik}=j_{sa}^{ik}-l_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)}$$

$$\sum_{n+l_{ik}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+l_{ik}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+l_{ik}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\frac{(n_i - 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D - l_i) \leq n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz^{S_{j_{ik}^{sa}}} = \sum_{k=1}^{(\quad)} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{n+j_{sa}-s} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}-D}^{n+j_{sa}-s} \\ \sum_{i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{n-j_{ik}-\mathbb{k}_1+1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{n+j_{sa}-s} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{n+j_{sa}-s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa})) \wedge$$

$$(\mathbf{n} > n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik}, j^{sa}}^{\text{iso}} = & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1)!}{(j_{ik} - 2)! \cdot (n - n_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
 & \frac{(n_{sa} - j^{sa} - 1)!}{(n_{sa} - j^{sa} - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
 & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
 & \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
 & \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
 \end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa})$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{()} \sum_{j_{sa}^{ik}=l_{ik}+n+j_{sa}-D-j_{sa}^{ik}}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{\infty} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} j^{sa} = l_i + n + j_{sa} - D - s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n)} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa}^{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - n - l)!}{(D + j^{sa} + s - n - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \geq l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{ik}+n-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n+l_{k2}-j_{ik}+1)}^{(n_i-j_{ik}-l_{k1}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-l_{k2}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - l_{k2} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - l_{k2})!} \cdot \\
& \frac{(n - n_{sa} - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-l_{k1}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k2})}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{is} &= \sum_{k=1}^{(j_{sa}^{ik} - j_{sa})} \sum_{j_{ik}=\mathbf{l}_i - \mathbf{n} - D}^{\mathbf{n} + j_{sa} - s} \sum_{j_{sa}=\mathbf{l}_i + \mathbf{n} + j_{sa} - D - s}^{n + j_{sa} - s} \\ &\sum_{i=\mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_{ik} - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa}=\mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} j^{sa} = l_i + n + j_{sa} - D - s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n)} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (j_{ik} + j_{sa}^{ik} - 1)!}{(l_s + j_{sa}^{ik} - j_{ik})! \cdot (j_{ik} + j_{sa}^{ik} - 1)!}$$

$$\frac{(D - n - 1)!}{(D + j^{sa} + s - n - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \geq l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n=n+l_k}^n \sum_{(n_{is}=n-l_k)}^{(n_i+l_k+1)} \sum_{j_{ik}=j_{ik}}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(n + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + l_i - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s = D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - \mathbf{l}_{sa})} \sum_{(j_{ik} = \mathbf{l}_{sa} - \mathbf{n} - D)}^{n + j_{sa} - s} \sum_{j_{sa} = \mathbf{l}_{sa} + j_{sa}^{ik} - j_{ik}}^{n + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{j_{ik} - \mathbb{k}_1 + 1} \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{j_{sa} + 1} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - \mathbb{k}_2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{ik} - \mathbb{k}_2 - 1)! \cdot (n_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j_{sa} - \mathbf{l}_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \cdot \\ & \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - \mathbf{l}_{sa})} \sum_{(j_{ik} = \mathbf{l}_{sa} - \mathbf{n} - D)}^{n + j_{sa} - s} \sum_{j_{sa} = \mathbf{l}_{sa} + j_{sa}^{ik} - j_{ik}}^{n + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \end{aligned}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - s)!}.$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = n - 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: (j_{sa}^i, j_{sa}^{ik}, \dots, j_{sa}^s, \dots, j_{sa}^{ik}) \wedge$$

$$\geq 5 \wedge j_{sa}^i = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k}_Z = \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - D}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \dots$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa}^{ik} + j_{sa}^{ik} - j_{sa})!}$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})!} \dots + j_{sa} - j^{sa} \dots$$

$$\sum_{k=0}^{n+j_{sa}-s} \binom{n+j_{sa}-s}{k} j_{ik} = j_{is_a}^{\text{sa}} - j_{is_a}$$

$$\sum_{i=\mathbf{n}+\mathbb{K}}^{(n_i-j_s+1)} \sum_{i_k=\mathbf{n}+\mathbb{K}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{K}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)}$$

$$\frac{(n_i - \mathbf{n} \cdot \mathbf{j}^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D_{\text{max}} \leq n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sq}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sq}^{ik} - j_{sq} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik} j_{sa}}^{iso} = \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{(n + j_{sa} - s)} \sum_{(j_{sa} = l_{sa} + n - D)}^{(n + j_{sa} - s)} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - j_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{(n + j_{sa} - s)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - j_{sa} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}-s)} \sum_{(j_{ik}=l_i+l_{sa}+j_{sa}^{ik}-D-j^{sa})} \sum_{n_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{K}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)}^{(\quad)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - j^{sa} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(D > \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^{ik}\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K}_1$$

$$\mathbb{K}_2 = 2 \wedge \mathbb{K}_2 = \mathbb{K}_1 + \mathbb{K}_2 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = l_{ik} + n - D)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \\ &\sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j^{sa}-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{sa}=j_{ik}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}^{ik}-s)} \\
& \sum_{n_i=n+\mathbb{K}_1}^n \sum_{(n_i-j_{ik}=j_{sa}^{ik}-1)}^{(n_i-j_{ik}=j_{sa}^{ik}-1)} \sum_{(n_{ik}+j_{ik}=j_{sa}^{ik}-\mathbb{K}_2)}^{(n_{ik}+j_{ik}=j_{sa}^{ik}-\mathbb{K}_2)} \\
& \frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{K}_1}^n \sum_{(n_{is}=n+\mathbb{K}_1+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{K}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)}^{()}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) =$$

$$j_{sa}^{ik}, j^{sa} = \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + l_i)!}$$

$$\frac{(D + j^{sa} + s - n - l_i - j_{sa})!}{(D + j^{sa} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s$$

$$l_s - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \wedge D + l_{ik} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik})!}{(l_{sa} - j_{sa}^{ik} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik})} \sum_{(j_{ik}=l_i+n_{ik}^{ik}-D-s)}^{(n+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i - \mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} \wedge \mathbf{n} \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}-j_{sa}^{ik}+1)} \sum_{j_{sa}=j_{sa}^{ik}+1}^{j_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-\mathbb{k}_2} \\ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\ \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\ \frac{(n_{sa}-1)!}{(j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ \left. \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} \right) + \\ \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j_{sa}=j_{sa}+2}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\ \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot$$

$$\begin{aligned}
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa})} \sum_{(n_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa})} \\
& \sum_{n_i=n}^n \sum_{(n_{ik}=n+l_{ik}-j_{ik}+1)}^{(n_{ik}=n+l_{ik}-j_{ik}+1)} \sum_{(n_{sa}=n-j_{sa}+1)}^{(n_{sa}=n-j_{sa}+1)} \cdot \\
& \frac{(n_i - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - l_{ik} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - l_{ik})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \Bigg) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=n+l_{ik}}^n \sum_{(n_{is}=n+l_{ik}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}
\end{aligned}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (l_i + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \\
& \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{(l_{sa})} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n+\mathbb{k}-j_{sa}^{ik}+1)}^{(n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2)} \\
& \frac{(n_i - j_{ik} - 1)!}{(n_i - n - 1)! \cdot (n_i - j_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - j_{ik} - \mathbb{k}_2 - 1)!}{(n_{ik} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa}^{ik} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - j_{sa}^{ik} - 1)!}{(n_{sa} + j_{sa}^{ik} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_s+j_{sa}^{ik}-k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}^{ik}-k)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = j_{sa} + 1} \\ &\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j^{sa} = l_s + j_{sa}}^{l_{sa}} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} + j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j_{sa}^{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{()} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j^{sa} = j_{sa} + 1}^{l_s + j_{sa} - 1} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_{2, \mathbf{n}, j^{sa}}^{iso} = & \left(\sum_{k=1}^{(n_i - j_{sa} - \mathbb{k}_1 + 1)} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{sa} = j_{sa} + 1}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \right. \\ & \sum_{n = \mathbf{n} + \mathbb{k}}^{(n_i - j_{sa} - \mathbb{k}_1 + 1)} \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\ & \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j_{sa}^{sa} = j_{sa} + 2}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{(n_{ik}=j_{sa}^{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) -
\end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}^{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-\mathbb{L}_s-\mathbb{L}_s+1)}{(n_i-n-1)! \cdot (n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-j_{ik}-s-\mathbb{L}_s-1)!} \cdot$$

$$\frac{(l_s-\mathbb{L}_s+1)}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(D-n+1)}{(D+j^{sa}+s-n-j_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa}^{ik} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_{ik} \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq j_{sa}^{ik} + j_{sa} - n \wedge$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 1 \wedge s = s + \mathbb{k}_1 \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{lk} - 1)} \sum_{j_{ik}=j_{sa}^{lk}+1}^{l_s + j_{sa} - 1} \sum_{j_{sa}=j_{sa}^{lk}+2}^{l_s + j_{sa} - 1} \right) \cdot \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{n_{ik}=n_{ik}-j_{ik}+1}^{(n_i - j_{ik} - \mathbb{K}_2 - 1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{lk} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{lk} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{lk} - 1)} \sum_{j_{ik}=j_{sa}^{lk}+1}^{l_s + j_{sa} - 1} \sum_{j_{sa}=l_s + j_{sa}}^{l_{sa}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{sa}^{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(n + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}^{ik}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}} \right. \\ \left. \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right. \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right)$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (D + j_{sa} - j^{sa} - s - 1)!} \cdot$$

$$\sum_{k=1}^{(l_{ik}-k+1)} \sum_{j_{sa}^{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}} \sum_{j_{sa}^{ik}=j_{sa}^{ik}}^{j_{sa}^{ik}} (n_{ik} - j_{sa}^{ik})!$$

$$\sum_{n_{is}=\mathbf{n}+\mathbb{k}}^{n_{is}=\mathbf{n}+\mathbb{k}+1} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_{is}=\mathbf{n}+\mathbb{k}+1)} (n_{is} - j_{sa}^{ik})!$$

$$\sum_{n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-\mathbb{k}_1}^{(n_{is}=\mathbf{n}+\mathbb{k}+1)} \sum_{(n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} (n_{sa} - j_{sa}^{ik})!$$

$$\frac{(n_{ik} + j_{sa}^{ik} - j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot j_{sa} - l)!}{(n_{ik} - \mathbf{n} - l)! \cdot (n_{ik} + j_{sa}^{ik} - 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D > \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa}^{ik} - \mathbb{k}_2}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa}^{ik} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \right)$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + \mathbb{k}_1, \dots, j_{ik} + j_{sa}^{ik} - j_{sa}^{ik})}$$

$$\sum_{\mathbb{k} \in \mathbb{N}} \sum_{(n_{is} = \mathbf{n} + \mathbb{k}, \dots, n_{is} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{ik} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq 1 \wedge l_s \leq \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{sa} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_{ik} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + \mathbf{n} - n \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D + s - \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik} j^{sa}}^{\text{iso}} &= \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{l_{sa}} \\
 &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\frac{(n_i - n_{ik} - \mathbb{k}_1)!}{(j_{ik} - 2)! \cdot (n - n_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 &\frac{(n_{sa} - j^{sa} - 1)!}{(n_{sa} - j^{sa} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
 &\frac{(j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 &\frac{(l_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
 &\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n_i - j_s + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{l_{sa}} \\
 &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
 &\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - j_s + 1)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(n_i - j_s + 1)} \\
 &\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
 &\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_{\mathbf{Z}} S_{j_{ik}, j_{sa}}^{iso} &= \left(\sum_{k=1}^n \sum_{(j_{ik} - j_{sa}^{ik} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j_{sa}^{sa} = l_{sa} + \mathbf{n} - D}^{l_s + j_{sa} - 1} \right. \\ &\quad \sum_{i=\mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\ &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\quad \left. \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \right) \cdot \\ &\quad \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) + \\ &\quad \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j_{sa}^{sa} = l_{sa} + \mathbf{n} - D} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=l_s+j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Big) -
\end{aligned}$$

$$\sum_{k=1}^{\sum_{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}} \binom{l_{ik}+j_{sa}-j_{sa}^{ik}}{j_{sa}=l_i+n+j_{sa}-D-s}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\sum_{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}} \binom{l_{ik}+j_{sa}-j_{sa}^{ik}}{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(l_s + j_{sa}^{ls} - j_{ik} - j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(D + j^{sa} + s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_{ik} \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n \leq l_{sa} \leq n + l_{ik} + j_{sa} - l_{sa} \wedge$$

$$(D \geq n < n \wedge l_{sa} - \mathbb{k} > 0)$$

$$j_{sa} \leq j_{sa}^{ls} - 1 \wedge j_{sa}^{ik} \leq j_{sa}^{ls} - 1 \wedge j_{sa} = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ls}, \dots, \mathbb{k}_2, j_{sa}^{ls}, \dots, j_{sa}^i\} \wedge$$

$$s \geq l_{sa} - s = s + \mathbb{k}_1 + 1$$

$$\mathbb{k}_z: z = 2 \wedge (\mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1}^{\sum_{j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}} \binom{l_s+j_{sa}^{ik}-1}{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - s)} \sum_{(j_{ik} - j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{n-D}^{n + j_{sa} - s} \right) \cdot \\
& \sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n - j_{ik} - 1)}^{(n_i - j_{ik} - \mathbb{K}_2 - 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2 - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa}^{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{sa}^{sa} - j_{sa})!} \cdot \\
& \left(\frac{(D - j_{sa} - l_{sa} - s)!}{(n + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_i)} \sum_{(j_{ik}=\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_i)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_i)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \vee$$

$$(D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \vee$$

$$(D \geq n < n \wedge l = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}+j_{sa}-j_{sa}^{ik})} \sum_{j_{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \left. \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \right. \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) +$$

$$\begin{aligned}
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{\sum_{i=1}^n (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{ik} = l_i + n + j_{sa} - D - s}^{l_s + j_{sa} - 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_i = n + \mathbb{k} + 1) \wedge (n_{is} = n + \mathbb{k} - j_{ik})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(l_s - 2)!}{(n + j_{sa}^{ik} - j_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + j_{sa}^{ik} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n - l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \Bigg) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(\mathbf{l}_{ik})} \sum_{(j_{sa}=\mathbf{l}_{sa}+j_{sa}-j_{sa}^{ik})} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \frac{(\mathbf{l}_{ik}-j_{sa}^{ik}-1)!}{(\mathbf{l}_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} \right) + \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{\mathbf{n}+j_{sa}-s} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \right)$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\infty} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{(j_{sa}=j_{ik}+j_{sa}^{ik}-j_{sa}^{ik}+1)}^{n-j_{sa}-s} \Delta_{(j_{sa}^{ik}-j_{sa}^{ik}+1)} \\
& \sum_{n_i=n+\mathbb{K}_1}^n \sum_{(n_i-j_{ik}-\mathbb{K}_1+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{(n_{ik}+j_{ik}-\mathbb{K}_2)}^{n_{ik}+j_{ik}-\mathbb{K}_2} \sum_{(n_{sa}=n-j^{sa}+1)}^{n_{sa}=n-j^{sa}+1} \\
& \frac{(n_i - n_{ik} - j_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{\infty} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{K}_1}^n \sum_{(n_{is}=n+\mathbb{K}_1+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{K}_1}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)}^{(\quad)}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1).$$

$$(D \geq \mathbf{n} < n \wedge l_s > 0 \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^{ik} - j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^{ik}, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}^{ik}, \dots, j_{sa}^{ik}\}$$

$$s \geq 5, \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbf{s} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{n_{ik}} \sum_{j_{sa}=n_{sa}+1}^{n_{sa}+j_{sa}-s} \frac{(n_i - j_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2}{n_{sa} = \mathbf{n} - j^{sa} + 1}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - j_{sa}^{ik} - j_{ik} - 1)! \cdot (n - j_{sa} - j^{sa} - s)!} \cdot$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + j_{sa}^{ik} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l_s = 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \mathbb{k}_1, j_{sa}^i, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s} \\
& \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}_1-j_{ik})}^{(n_i+\mathbb{k}_1+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_2}^{(n_{ik}=\mathbf{n}+j_{sa}^{ik}-\mathbb{k}_2)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq \mathbf{n} - 1 \wedge l_s \leq D - \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa}^{ik} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} \leq l_{sa} \leq D - l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D - \mathbf{n}) \leq \mathbf{n} \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z^{ISO} S_{j_{ik}, j^{sa}} = & \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{l_s + j_{sa} - 1} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_s + j_{sa}}^{n + j_{sa} - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s} \\
& \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}_1-j_{ik})}^{(n_i+\mathbb{k}_1+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_2}^{(n_{ik}=\mathbf{n}+j_{sa}^{ik}-\mathbb{k}_2)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(j_{sa}^{ik} + j_{sa} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + j_{sa}^{ik} - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} + 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa}^{ik} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D - \mathbf{n}) \leq n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{iso} = & \sum_{k=1}^{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n - n + j^{sa} - n - 1)! \cdot (n - j^{sa})!}{(n_{ik} - j_{ik} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n_{sa} - l_{sa} - s)!}{(D - j^{sa} - n - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{\binom{()}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z^{S_{j_{ik}, j_{sa}}} = & \sum_{k=1}^{(\quad)} \sum_{j_{ik}=j_{sa}+j_{sa}^{ik}}^{(\quad)} \sum_{j_{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-1)+1} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1}^n \sum_{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}^{(\quad)} \sum_{j_{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}$$

$$D + s - n < l_i \leq D + l_s + s - n - 1))$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + j_{sa} - n - l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = 0 > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2, \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik} j_{sa}}^{iso} = \sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j_{sa}=l_{sa}+n-D}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{s=1}^{(l_{ik} - j_{sa}^{ik} - D - j_{sa})} \sum_{j_{sa}^{ik} = j_{sa}^{ik} - D - j_{sa}}^{n + j_{sa} - s} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=l_{ik}+n+j_{sa}^{ik}-D-s)} j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (j_{ik} + j_{sa}^{ik} - 1)!}{(l_s + j_{sa}^{ik} - j_{ik})! \cdot (j_{ik} + j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - \mathbb{k}_1 - \mathbb{k}_2)!}{(D + j_{sa} + s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{ik} \leq n + l_s + j_{sa}^{ik} - n \wedge$$

$$(D \geq n < n \wedge \mathbb{k}_1 + \mathbb{k}_2 > 0)$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa} = j_{sa}^{ik} - 1 \wedge$$

$$s \cdot \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbb{k}_1, s = s + \mathbb{k}_1$$

$$\mathbb{k}_z: z = 2, \dots, \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=l_{ik}+n-D)} j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\Delta} \sum_{l_{ik}=0}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{sa}^{ik}=0}^{(n_{ik} + n - l_{ik} - j_{sa}^{ik})} \sum_{j_{sa}^{ik}=0}^{(n_i - j_s + 1)} \sum_{n_{is}=n + \mathbb{k}}^{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})} \sum_{k=n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(\quad)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i - 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{\binom{D}{k}} \sum_{(j_{ik}=j_{sa}^s+j_{sa}^{ik}-j_{sa})}^{n+j_{sa}-s} j_{sa}^{sa=l_i+n+j_{sa}-D-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \sum_{(n_{ik}=n+\mathbb{k}_2)}^{n_{sa}=n-j_{ik}-1} \frac{(n_i-n_{sa}-1)!}{(j_{ik}-2)! \cdot (n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \sum_{k=1}^{\binom{D}{k}} \sum_{(j_{ik}=j_{sa}^s+j_{sa}^{ik}-j_{sa})}^{l_s+j_{sa}-1} j_{sa}^{sa=l_i+n+j_{sa}-D-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-l)!}{(n_i-n-l)! \cdot (n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} \text{iso}_{j^{sa}} = & \sum_{k=1}^{(n+j^{sa}-s)} \sum_{j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s}^{(n-j_{ik}-\mathbb{K}_1+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \sum_{i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ & \sum_{k=1}^{(\mathbf{l}_s+j_{sa}^{ik}-1)} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_s+j_{sa}^{ik}-1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(\mathbf{l}_s+j_{sa}^{ik}-1)} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - s)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - l_{ik} \wedge l_i - j_{sa} - s = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + j_{sa}^{ik} + j_{sa}^{ik} - \mathbf{n} - 1$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} \leq j_{sa}^i - 1 \wedge j_{sa}^s = j_{sa}^{ik} - j_{sa}^i \wedge$$

$$s \in \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, j_{sa}^i\} \wedge$$

$$s \geq \mathbb{k} \wedge s = s + \mathbb{k}$$

$$z: z = z + \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{n+j_{sa}-s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - l_{sa} - s)!}$$

$$\sum_{k=1}^{\infty} \sum_{i=1}^{\infty} (j_{ik} = j_{sa}^{ik} + j_{sa}^{ik} - j_{sa}^{ik}) \dots$$

$$n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik}$$

$$\sum_{s+j_{sa}^s-j_{sa}^{ik}} \sum_{k_1}^{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2)} \sum_{k_2}^{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2)}$$

$$\frac{(n_i + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa}^{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i + s - I)! \cdot (n + 2 \cdot j_{sa}^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(n + j_{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq n \wedge l_s > 1 \wedge \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} = j_{sa}^{ik} \wedge$$

$$j_{ik} \wedge j_{sa} \vee j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + s > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik} = l_{ik} + n - D)}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = l_{ik} + n + j_{sa} - D - s}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ \frac{(n_i - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} + j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(n_{ik} + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=1} \sum_{(j_{ik} = l_{ik} + n - D)}^{(l_{ik})} \sum_{j^{sa} = l_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s} \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^s (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{l_s = l_i + n + j_{sa}^{ik} - D - s}^{l_s = a - 1}$$

$$\sum_{n=n+\mathbb{k}}^{(n_i - j_s)} \sum_{(n_{i_1} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa}))!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} - s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$D \geq n < n \wedge l_s = 1 \wedge l_s = D - n \wedge$$

$$j_{sa}^{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{ik} \leq j^{sa} \leq j_{sa} + j_{sa} - s \wedge$$

$$l_{ik} - \mathbb{k} + 1 > l_s + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - l_{sa} \leq l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$s > n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: Z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = l_{ik} + n - D)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{n + j_{sa} - s}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - s)}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = n - j_{sa}^{ik} - j_{ik})}^{(n_i - \mathbf{n} + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - \mathbf{n} + 1)} \sum_{n_{ik} = j^{sa} - \mathbb{k}_2}^{(n_i - \mathbf{n} + 1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_{zS}^{ISO}_{j_{ik}, j_{sa}} &= \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}=j_{sa}+1}^{l_{sa}} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{ik}=n+\mathbb{k}_2)}^{(n_{ik}=n+\mathbb{k}_2)} \sum_{(n_{sa}=n-j_{sa}+1)}^{(n_{sa}=n-j_{sa}+1)} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} - \\ &\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\ &\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ &\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_z j_{sa}^{ik} &= \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \\ &\sum_{n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ &\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{sa}} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq \mathbf{n} + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} - j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$j_{sa}^{ik} \geq 5 \wedge j_{sa}^{ik} \geq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - s)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}+1)}^{(l_s + j_{sa}^{ik} - k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_s+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i - \mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D - \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik} j_{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_{ik})} j_{sa}^{sa=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \frac{(n_{ik}-j_{ik}-\mathbb{k}_2-1)!}{(j_{ik}-2)! \cdot (n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(n_{sa}-j_{ik}-1)! \cdot (n_{ik}-j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \frac{(\mathbf{l}_{ik}-j_{sa}^{ik}-1)!}{(\mathbf{l}_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$j_{ik}, j^{sa} = \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - j_s + 1)} \sum_{(n_{is} = n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)}^{(n_i - j_s + 1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - n_{is} - s - l_{sa} - I)!}{(n_i - n - I)! \cdot (n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - n_{is} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(n_i - j_s - 2)!}{(l_s + j_{sa} - j_{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - n_i)!}{(j_{sa} + s - n - l_i - j_{sa}^{ik})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s = D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa}^{ik} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D - n - n < l_i \leq l_s + s - n - 1 \wedge$$

$$(D \geq n - n \wedge I = \mathbb{k} > 0) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{ik} \leq j_{sa}^i - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j_{sa}^{ik} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\sum_{(j_{ik}=l_i+n_{ik}^{ik}-D-s)}^{(l_{sa}+j_{sa}^{ik}-1)}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\sum_{n_i=\mathbf{n}+\mathbb{k}}^n} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i - \mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((\mathbf{n} - \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{s_1}, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^{s_2}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_2: (n - j_{ik} - \mathbb{k}_1 + 1) \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = j_{sa} + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbf{n}} \sum_{j_{ik}=j_{sa}^{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}_1}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbf{n}} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}}^{()} \sum_{j_{sa}=j_{sa}+1}^{l_s+j_{sa}-1}
\end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_1)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{sa} - l_i - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} &= \sum_{k=1}^{(\mathbf{l}_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}} \sum_{j_{sa}=j_{sa}^{ik}-1}^{\mathbf{l}_{sa}} j_{sa} - j_{sa}^{ik} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-1)+1} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j_{sa} - \mathbf{l}_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} - \\ &\sum_{k=1}^{(\mathbf{l}_s + j_{sa}^{ik} - k)} \sum_{j_{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \end{aligned}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - j_{sa}^{ik} - j_{sa} - l_i)! \cdot (n - j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1)) \wedge$$

$$(D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+j_{sa}}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_i - 1)!}{(n_i + j^{sa} - \mathbf{n} + 1)! \cdot (\mathbf{n} - j^{sa} + j_{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} + 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - j^{sa} - l_{sa} - s)!}{(D - j^{sa} - \mathbf{n} - l_{sa} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$fz S_{j_{ik}}^{iso} = \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{\sum} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_s+j_{sa}-1)} j^{sa}=l_{sa}+n-D$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\sum} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(l_s+j_{sa}-1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (l_s + j_{sa}^{ik} - l_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (D + j^{sa} + s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n \leq l_{sa} \leq n + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + j_{sa} - n \leq l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = l_{sa} + n - D}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\frac{(n_i - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 &\frac{(l_{ik} + j_{sa}^{ik} - 1)!}{(l_{ik} + j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 &\frac{(j_{ik} + l_{sa} - j^{sa} - l_{ik})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
 &\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_s + j_{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot
 \end{aligned}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^{\mathbf{n}} (l_{ik} - j_{sa}^{ik} - 1)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}-j_{sa}^{ik}-1)}$$

$$\sum_{(n_i - j_{sa}^{ik} - 1)}^{(n_i - j_{sa}^{ik} - 1)} \sum_{(n_i - j_{sa}^{ik} - 1)}^{(n_i - j_{sa}^{ik} - 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-l_{k1}}^{(n_{ik}=n_{ik}+j_{ik}-j^{sa}-l_{k2})}$$

$$\frac{(n_i + 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - j_{sa}^{ik} - 1) \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^{ik} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$l_{sa} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, \dots, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - j_{sa} - 1)} \sum_{j_{ik} = j_{sa}^{ik} + 1}^{(j_{ik} - j_{sa}^{ik} + 1)} \sum_{j_{sa} = l_{sa} + n - D}^{(n - j_{sa} - k_1 + 1)} \sum_{n_{ik} = n + k_2 - j_{ik} + 1}^{(n_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{(n_{sa} - k_2 + 1)} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - k_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa}}^{(n + j_{sa} - s)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{(n_{ik} + j_{ik} - j_{sa} - k_2)} \sum_{n_{ik} = n + k_2 - j_{ik} + 1}^{(n_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{(n_{sa} - k_2 + 1)}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - n_{sa} + 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j^{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_{ik}-k+1+j_{sa}^{ik}-D+l_{sa})} \sum_{(n_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{ik})} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa})} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} \wedge \mathbf{n} \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_s \wedge l_i + j_{sa} - s - j_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, l_{k_1}, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 5 \wedge s = s + l_{k_1} \wedge$$

$$l_{k_2}: z = 2 \wedge l_{k_2} = l_{k_1} + 1 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_{ik} + n - D)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j^{sa} = l_{sa} + n - D}^{n_{ik} + j_{ik} - j^{sa} - l_{k_2}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(n_{ik}-n_{sa}-\mathbb{K}_2-j_{ik}+1)} \sum_{j_{sa}^{ik}=j_{sa}^{ik}+1}^{n+j_{sa}-s}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{n_{ik}=n_{sa}-j_{ik}+1}^{(n_i-j_{ik}-1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i - n_{ik} - j_{ik} + 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(l_{ik})} \sum_{j_{sa}^{ik}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} - 1 > l_s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + j_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik} j_{sa}}^{iso} = & \sum_{n=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = l_{ik} + \mathbf{n} - D - j_{sa} - 1)}^{n + j_{sa} - s} \sum_{n_{sa} = \mathbf{n} - D}^{n + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} - \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa})}^{(l_{ik})} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{ik} - j_{sa}^{ik})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{sa}^{ik})!} \cdot \\
& \frac{(\mathbf{n} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s+j_{sa}-1)} \sum_{j_{sa}^{ik}=\mathbf{n}+j_{sa}^{ik}-D-s}^{j_{sa}^{ik}=\mathbf{n}+j_{sa}^{ik}-D-s} \sum_{j_{sa}^{ik}=\mathbf{n}+j_{sa}^{ik}-D-s}^{j_{sa}^{ik}=\mathbf{n}+j_{sa}^{ik}-D-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{ik}=\mathbf{n}_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \left(\sum_{k=1}^{\mathbf{n}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}^{ik}}^{\mathbf{l}_{sa}} \right. \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \left. \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \right) + \\ & \left(\sum_{k=1}^{\mathbf{n}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}+1}^{\mathbf{l}_{sa}} \right. \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \left. \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \right) \end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{l_{sa}=1}^{n_{sa}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_{sa}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{sa}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{sa}^{ik} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(n + s - n - l_i)!}{(n + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa} + 1 > l_s \wedge n_{sa} + j_{sa}^{ik} - j_{sa} =$$

$$l_{ik} \leq D + j_{sa}^{ik} - j_{sa} \wedge l_i \leq D + s - n$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{ik}, j_{sa}^{ik}, \dots, j_{sa}^{ik}, \dots, j_{sa}^{ik}\} \wedge$$

$$s \geq 5 \wedge s = n + \mathbb{k} \wedge$$

$$n - \mathbb{k} = \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=j_{sa}}^{l_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - s)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j^{sa}=j_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\cdot)} \\
& \frac{(n_i - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D - \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i - n_{ik} - j_{sa}^{ik} + 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{sa}^{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2 - 1)!} \cdot \frac{(n_{sa} - j_{sa}^{ik} - 1)!}{(n_{sa} - j^{sa} - 1)! \cdot (n - j^{sa})!} \cdot \frac{(j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} - \sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_{sa}=j_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n - \mathbb{k})! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1}^{(\mathbf{l}_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(\mathbf{l}_{ik})} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^{ik}+1}^{(n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} - \\ &\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j_{sa}=j_{sa}}^{(\quad)} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(\quad)} \\ &\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ &\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_{zS}^{j_{ik}, j_{sa}} &= \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{sa}} \sum_{j_{sa}=j_{sa}}^{l_{sa}} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}} \sum_{j_{ik}=j_{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} - l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n})) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D - j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{n} - \mathbb{k} < 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f^z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} - j_{sa} - j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot$$

$$\frac{(n + j_{sa} - n - s)!}{(n + j^{sa} - n - s)! \cdot (n - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(\)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - j_{ik} - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n \wedge l_s \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(n_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \right) + \\ & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}+1}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1) l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \right) \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} \sum_{(n_{ik}=l_{ik}+j_{sa}^{ik}-j_{sa}^{ik}+1)}^{(l_{ik})} \Delta_{(n_{ik}=l_{ik}+j_{sa}^{ik}-j_{sa}^{ik}+1)}^{(l_{ik})} \\
& \sum_{n_i=n+\mathbb{K}_1}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{K}_1+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)} \\
& \frac{(n_i - n_{ik} - j_{ik} - 2)!}{(n_i - n_{ik} - j_{ik} - 1)!} \cdot \frac{(n_i - n_{ik} - j_{ik} + 1)!}{(n_i - n_{ik} - j_{ik} - 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}}^{()} \\
& \sum_{n_i=n+\mathbb{K}_1}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{K}_1+1)}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{K})!}{(n_i - n - \mathbb{K})! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} S_{j_{ik}, j_{sa}}^{iso} = & \left(\sum_{k=1}^{(j_{ik})} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}} \right. \\ & \sum_{n_i=\mathbb{k}}^{(n_i-j_{sa}-\mathbb{k}_1+1)} \sum_{n_{ik}=\mathbb{k}}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \sum_{n_{sa}=\mathbb{k}}^{(n_{sa}=n-j_{sa}+1)} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (n - s)!} \right) + \\ & \left(\sum_{k=1}^{(j_{ik})} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}+1}^{l_{sa}} \right) \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(l_{sa} - j_{sa} - j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{ik} - j_{sa})!}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{((\mathbf{n} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j^{sa} - j^{sa} - s)!)} -$$

$$\sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j^{sa}=j_{sa}}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}+\mathbb{k}_2-j_{ik}-j^{sa}-\mathbb{k}_2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - j^{sa} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = \mathbf{n} \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^{sa}=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+\mathbb{k}_2}^{(n_{ik}+j_{ik}-j_{sa}+\mathbb{k}_2)} \\ &\frac{(n_i - n_{sa} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ &\frac{(n_i + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} - \\ &\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^{sa}=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(\quad)} \\ &\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ &\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} -$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \dots + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j_{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j_{sa} - l_{ik})! \cdot (j_{sa} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} -$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=\mathbf{n}-j_{sa}-\mathbb{k}_2}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D + s - \mathbf{n} - l_i)!}{(n - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^{ik}\} \wedge$$

$$s \geq 6, s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}=l_{sa}+\mathbf{n}-D}^{\mathbf{n}+j_{sa}-s} \right.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\left(\sum_{k=1}^{j^{sa} + j_{sa}^{ik} - j_{sa} - \mathbf{n} + j_{sa} - s} (j_{ik} = l_s + \mathbf{n} + j_{sa}^{ik} - 1) j^{sa} = l_{sa} + \mathbf{n} -$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}_2}^n \sum_{n_{ik} = \mathbf{n} + \mathbb{k}_2 + j_{sa}^{ik} - j_{ik} - j^{sa} - \mathbb{k}_2}^{j_{ik} - j_{sa}^{ik} - 1} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} - j_{sa}^{ik} - j^{sa} - \mathbb{k}_2} (j_{ik} - n_{ik} - 1)! \cdot$$

$$(j_{ik} - 2)! \cdot (j_{ik} - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)! \cdot$$

$$\frac{(j_{ik} - n_{ik} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{j^{sa} + j_{sa}^{ik} - j_{sa} - \mathbf{n} + j_{sa} - s} \sum_{(j_{ik} = l_s + \mathbf{n} + j_{sa}^{ik} - 1)}^{j_{ik} - j_{sa}^{ik} - 1} \sum_{j^{sa} = l_{sa} + \mathbf{n} - j_{sa} - D - s}^{n + j_{sa} - s}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}_2}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k}_2 + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n_i + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j^{sa} < j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$S_{\mathbf{s}}^{l_{sa}} = \left(\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) + \\
& \left(\sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)} \sum_{j^{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \right. \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa}^{ik} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot
\end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})}$$

$$\sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})}$$

$$\sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik})}$$

$$\frac{(n_i + 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - l - l)! \cdot (\mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$- j_{sa}^{ik} - 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \bigg) \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k_1, j_{sa}^{ik}, \dots, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}, j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} j_{sa}^{sa=l_{sa}+n-D} \right. \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{(j_{ik}=l_{ik}+n-D)}^{n+j_{sa}-s} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^n (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{l_i = l_i + n + j_{sa} - D}$$

$$\sum_{n_i = n_i + l_k}^{n_i + j_s + 1} (n_{is} = n + l_k + j_{sa}^{ik} - j_{ik})$$

$$\sum_{n_i = n_i + j_{sa} - j_{sa}^{ik} - l_k}^{n_i + j_{sa} - j_{sa}^{ik} - l_k} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - l_k}^{n_{sa} = n_{ik} + j_{ik} - j^{sa} - l_k}$$

$$\frac{(n_i + 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - l - l)! \cdot (n + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$(l_i - j_{sa}^{ik} - l_i = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \bigg) \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k_1, j_{sa}^{ik}, \dots, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^{\sum_{n_i=n+k}^n} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D)}^{(n+j_{sa}^{ik}-s)} j_{sa}^{sa=j_{ik}+j_{sa}^{ik}-l_{sa}} \right. \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa}^{sa=j_{ik}+j_{sa}^{ik}-l_{sa}} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{\sum_{n_i=n+k}^n} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-j^{sa}-j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j_{sa}^{ik}=j_{sa}^{ik}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{n_i-j_{ik}-\mathbb{K}_2-1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{ik} < j_{sa}^{ik} - 1$$

$$s: \{j_s^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\},$$

$$s \leq 6 \wedge s = s - \mathbb{k} \wedge$$

$$\mathbb{k}_{z_1} = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_s + \mathbf{n} + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}
\end{aligned}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - l_{sa} - s)!}$$

$$n_{iS} + \mathbb{k} (n_{iS} + \mathbb{k} + j_{sa}^{ik} - j_{is+1})$$

$$\frac{(n_i + 2 \cdot j_{sa}^{sk} + 2 \cdot j_{sa}^{ik} - j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - l)! \cdot (n + j_{sa}^{sk} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(D - l_i)!}{(j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$j_{sa}^{ik} + 1 \leq j_{ik} + j_{sa} - j_{sa} \wedge$$

$$l_{ik} - j_{sa}^{ik} + s = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik}, j^{sa}}^{iso} = & \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} j^{sa} = l_i + n + j_{sa} - D - s \\
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - j_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
 & \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=n)}^{(n_i+\mathbb{k}+1)} \sum_{j_{ik}}$$

$$\frac{(n_i + \mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > \mathbf{n} - \mathbf{n} + 1 \wedge$$

$$j_{ik}^{ik} + 1 \leq j_{ik}^{ik} < j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq \mathbf{n} + j_{sa}^{ik} - j_{sa} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > \mathbf{n} - 1) \wedge$$

$$j_{sa}^{ik} - j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbf{s} \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=l_s+\mathbf{n}+j_{sa}-D-1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_s - j_{sa} - s)!}{(l_s + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\binom{D}{s}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\binom{D}{s}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i - n_{ik} - j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n_{ik} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D - \mathbf{n} \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_s+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-1)} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{n_{sa}=\mathbf{n}+j_{sa}-j_{sa}^{ik}}^{(n_{sa}=\mathbf{n}+j_{sa}-j_{sa}^{ik})} \\ & \frac{(n_{ik}-j_{sa}-\mathbb{k}_2+1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \frac{(n_{ik}-j_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}-j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa}-1)!}{(j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik}-j_{sa}^{ik}-1)!}{(\mathbf{l}_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} \cdot \\ & \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\ & \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-I)!}{(n_i-\mathbf{n}-I)! \cdot (\mathbf{n}+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f z^{j_{ik}} &= \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} j^{sa} = l_i + n + j_{sa} - D - s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n)} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(l_s + j_{sa}^{ik} - j_{ik} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (j_{ik} + j_{sa}^{ik} - 1)!} \cdot \frac{(D - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(D + j^{sa} + s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{ik} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k}_1 + 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^i, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}^s, \dots, j_{sa}\} \wedge$$

$$s \geq 6 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \geq 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{l_i=1}^{(n+j_{sa}^{ik}-s)} \sum_{j_{ik}=l_i}^{(j_{sa}^{ik}-D-s)} \sum_{j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)}$$

$$\sum_{j_{sa}^{ik}=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

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$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\frac{(n_i - 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D - l_i) \leq n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz^{S_{j_{ik}^{sa}}} = \sum_{k=1}^{()} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = \mathbf{l}_{sa} + \mathbf{n} - D}^{\mathbf{n} + j_{sa} - s} \\ \sum_{i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{()} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = \mathbf{l}_i + \mathbf{n} + j_{sa} - D - s}^{\mathbf{n} + j_{sa} - s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - j_{sa}^{ik} - j_{ik} - 1)! \cdot (n - j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa})) \wedge$$

$$s \geq n - n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_{ik}, j^{sa}}^{\text{iso}} = & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} - j^{sa} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
 & \frac{(j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
 & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
 & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
 & \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
 & \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
 \end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa})$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{\binom{()}{1}} \sum_{j_{sa}^{ik}=l_{ik}+n+j_{sa}-D-j_{sa}^{ik}}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{\infty} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} j^{sa} = l_i + n + j_{sa} - D - s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n)} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)!}{(l_s + j_{sa}^{ik} - j_{ik})! \cdot (j_{ik} + j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - n - 1)!}{(D + j^{sa} + s - n - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \geq l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{0, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{ik}+n-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n+l_{k2}-j_{ik}+1)}^{(n_i-j_{ik}-l_{k1}+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-l_{k2}} \\
& \frac{(n_i - n_{ik} - l_{k1} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - l_{k1} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - l_{k2} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - l_{k2})!} \cdot \\
& \frac{(n - n_{sa} - 1)!}{(n_{ik} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-l_{k1}} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k2})}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{is} &= \sum_{k=1}^{(j_{sa}^{ik} - j_{sa})} \sum_{j_{ik}=\mathbf{l}_i - \mathbf{n} - D}^{\mathbf{n} + j_{sa} - s} \sum_{j_{sa}=\mathbf{l}_i + \mathbf{n} + j_{sa} - D - s}^{n + j_{sa} - s} \\ &\sum_{n=\mathbf{n} + \mathbb{k}}^n \sum_{n_{ik}=\mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{n - j_{ik} - \mathbb{k}_1 + 1} \sum_{n_{sa}=\mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} j^{sa} = l_i + n + j_{sa} - D - s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n)} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa}^{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - n - 1)!}{(D + j^{sa} + s - n - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \geq l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge$$

$$(D - n \leq n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^i, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n=n+l_k}^n \sum_{(n_{is}=n+l_k)}^{(n_{is}=n+l_k+1)} \sum_{j_{ik}=j_{ik}}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(n + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + l_i - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s = D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - s)!}.$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = n - 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{0, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{sa}\} \wedge$$

$$\geq 6 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \leq 2 \wedge \mathbb{k}_z \leq \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - D}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})!} \dots + j_{sa} - j^{sa} \dots$$

$$\sum_{i,j,k} (j_{ik} = j_{sa} + j_{jk} - j_{sa}) \dots$$

$$\sum_{i=\mathbf{n}+\mathbb{K}}^{(n_i-j_s+1)} \sum_{(n_{is}=\mathbf{n}+\mathbb{K}+j_{sa}^{ik}-j_{ik})}$$

$$\sum_{i_k=n_{i_s}+j_{sa}^s-j_{sa}^{ik}-\mathbb{K}_1} \sum_{(n_{sa}=n_{i_k}+j_{ik}-j_{sa}-\mathbb{K}_2)}^{()}$$

$$\frac{(n_i - \mathbf{n} \cdot \mathbf{j}^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D_{\text{max}} \leq n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - l_{sa} = l_{sa} + n - D)}^{(n + j_{sa} - s)} \sum_{(n_i = n + \mathbb{K}_1 - j_{sa}^{ik} - 1)}^{(n + j_{sa} - s)} \\ & \sum_{(n_i = n + \mathbb{K}_1 - j_{sa}^{ik} - 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{(n_{sa} = n - j_{sa} + 1)}^{(n_{sa} - j_{sa} - \mathbb{K}_2)} \\ & \frac{(n_i - j_{ik} - \mathbb{K}_1 - 1)!}{(n_i - j_{ik} - \mathbb{K}_1 - 2)! \cdot (n_i - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{sa} - j_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{sa} - 1)! \cdot (n_{sa} + j_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{(n + j_{sa} - s)} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(n + j_{sa} - s)} \\ & \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{(n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2)} \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - j_{sa} - 1)! \cdot (D + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}-s)} \sum_{(j_{ik}=l_i+l_{sa}+j_{sa}^{ik}-D-j^{sa})} \sum_{(n_{is}=n+l_{sa}+j_{sa}^{ik}-j_{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - j^{sa} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(D > \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{K}$$

$$\mathbb{K} \cdot z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2 \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = l_{ik} + n - D)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \\ &\sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbf{n} + j_{sa}^{ik} - s} \sum_{(j_{ik}=l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j^{sa} - l_{sa})}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{sa} = j_{ik} + j_{sa}^{ik} - j_{sa})}^{(n + j_{sa} - s)} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}_1}^n \sum_{(n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{(n_{ik} = \mathbf{n} + j_{sa}^{ik} - j_{ik} - \mathbb{k}_2)}^{(n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 + 1)!}{(j_{ik} - \mathbb{k}_1 + 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - j_{ik} - \mathbb{k}_2 + 1)!}{(j^{sa} - \mathbb{k}_2 + 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbf{n} + j_{sa}^{ik} - s} \sum_{(j_{ik}=j^{sa} + j_{sa}^{ik} - j_{sa})}^{(\mathbf{n} + j_{sa}^{ik} - s)} \sum_{(j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s)}^{(\mathbf{n} + j_{sa} - s)} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}_1}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k}_1 + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{\mathbf{n} + j_{sa}^{ik} - s} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(\mathbf{n} + j_{sa}^{ik} - s)}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) =$$

$$j_{ik}^{sa} = \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}+j_{sa}-j_{sa}^{ik})} \sum_{j^{sa}=l_{sa}+n-D}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D + j_{sa} - n)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s$$

$$l_s - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \wedge D + l_{ik} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \dots, j_{sa}^i, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: 2 = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik})!}{(l_{sa} - j_{sa}^{ik} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik})} \sum_{(j_{ik}=l_i+n_{ik}^{ik}-D-s)}^{(n+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i - \mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} \wedge \mathbf{n} \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}-1)} \sum_{j_{sa}=j_{sa}^{ik}+1}^{+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-n_{ik}=\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-\mathbb{k}_2} \\ & \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa}-1)!}{(j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ & \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \left. \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} \right) + \\ & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j_{sa}=j_{sa}+2}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \left. \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \right) \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{l_{sa}} \sum_{j_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}} \\
& \sum_{n_i=n}^n \sum_{n_{ik}=n+l_{ik}-j_{ik}+1}^{(n_{ik}+1)-n+l_{ik}-j^{sa}-l_{k_2}} \sum_{n_{sa}=n-j^{sa}+1}^{(n_{ik}+1)-n+l_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(n_{ik} - n_{sa} - l_{k_2} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - n_{ik} - j_{ik} - l_{k_1} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - l_{k_2} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - l_{k_2})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{()} \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{()} \sum_{j_{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=n+l_{k_1}}^n \sum_{n_{is}=n+l_{k_1}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)}
\end{aligned}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (D + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \\
& \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n+\mathbb{k}-j_{sa}+1)}^{(n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2)} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_s+j_{sa}^{ik}-k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}^{ik}-k)} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = j_{sa} + 1} \\ &\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j^{sa} = l_s + j_{sa}}^{l_{sa}} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa}} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} + j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa}^{ik} - j_{sa}^{ik} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{()} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{l_s + j_{sa} - 1} \sum_{j^{sa} = j_{sa} + 1}^{l_s + j_{sa} - 1} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_{2, \dots, j^{sa}}^{iso} = & \left(\sum_{k=1}^{(j_{ik} - j_{sa}^{ik} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{ik} = j_{sa} + 1}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = j_{sa} + 1}^{j^{sa} = j_{sa} + 1} \right. \\ & \sum_{n_{ik} = n + \mathbb{k}}^{(n_i - n_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\ & \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = j_{sa} + 2}^{j^{sa} = j_{sa} + 2} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{(n_{ik}=j_{sa}^{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) -
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{lk} - 1)} \sum_{j_{ik}=j_{sa}^{lk}+1}^{l_s + j_{sa} - 1} \sum_{j_{sa}=j_{sa}^{lk}+2}^{l_s + j_{sa} - 1} \right) \cdot \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{n_{ik}=n_{ik}-j_{ik}+1}^{(n_i - j_{ik} - \mathbb{K}_1 - 1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{lk} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{lk} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{lk} - 1)} \sum_{j_{ik}=j_{sa}^{lk}+1}^{l_s + j_{sa} - 1} \sum_{j_{sa}=l_s + j_{sa}}^{l_{sa}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(n + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k_1, j_{sa}^{ik}, \dots, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\ \left. \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \right. \\ \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_i - j_{ik} - k_1 - 1)!}{(j^{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\ \left. \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \right. \\ \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_i - j_{ik} - k_1 - 1)!}{(j^{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) +$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (D + j_{sa} - j^{sa} - s - 1)!} \cdot$$

$$\sum_{k=1}^{(l_{ik}-k+1)} \sum_{j_{sa}^{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}} \sum_{j_{sa}^{ik}=j_{sa}^{ik}}^{j_{sa}^{ik}} (n_{ik} - j_{sa}^{ik})!$$

$$\sum_{n_{is}=\mathbf{n}+\mathbb{k}}^{n_{is}=\mathbf{n}+\mathbb{k}+1} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_{is}=\mathbf{n}+\mathbb{k}+1)} (n_{is} - j_{sa}^{ik})!$$

$$\sum_{n_{is}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{is}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} (n_{sa} - j_{sa}^{ik})!$$

$$\frac{(n_{ik} + j_{sa}^{ik} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_{ik} - \mathbf{n} - l)! \cdot (n_{ik} + j_{sa}^{ik} - 2 \cdot j_{sa} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$D > \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{(l_s + j_{sa}^{ik} - 1)} \right. \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1)} \sum_{n_{sa} = n - j_{sa}}^{(n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{l_{sa}} \right. \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{(n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + \mathbb{k}_1, \dots, j_{ik} + j_{sa}^{ik} - j_{sa}^{ik})}$$

$$\sum_{(n_i = j_{sa}^{ik} + \mathbb{k}_2, \dots, n_i + \mathbb{k}_2 + j_{sa}^{ik} - j_{ik})}$$

$$\sum_{(n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1, \dots, n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq \mathbf{n} - 1 \wedge l_s \leq \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{sa} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_{ik} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + s - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D + s - \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik} j^{sa}}^{\text{iso}} &= \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{l_{sa}} \\
 &\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \\
 &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 &\frac{(n_{sa} - 1)!}{(n_{sa} - j^{sa} - j_{ik} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
 &\frac{(j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\
 &\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n_i - j_s + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{l_{sa}} \\
 &\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
 &\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - j_s + 1)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(n_i - j_s + 1)} \\
 &\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
 &\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} & \left(\sum_{k=1}^n \sum_{(j_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{(j_{sa} = l_{sa} + \mathbf{n} - D)}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa} = l_{sa} + \mathbf{n} - D}^{l_s + j_{sa} - 1} \right. \\ & \quad \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \quad \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ & \quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \quad \left. \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \right) \cdot \\ & \quad \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ & \quad \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j_{sa} = l_{sa} + \mathbf{n} - D}^{l_s + j_{sa} - 1} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=l_s+j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) -
\end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}+j_{sa}-j_{sa}^{ik})} j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(j_{ik}+j_{sa}-j_{sa}^{ik})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(l_s + j_{sa}^{ls} - j_{ik} - j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2 - 1)! \cdot (j_{ik} + j_{sa}^{ik} - 1)!}$$

$$\frac{(D - \mathbf{n} - l)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - j_{sa}^{ik} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_{ik} \wedge l_{sa} + j_{sa}^{ik} - j_{sa}^{ik} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} \leq l_{sa} \leq \mathbf{n} + l_{ik} + j_{sa} - l_{sa}^{ik} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s - \mathbb{k} > 0) \wedge$$

$$j_{sa} \leq j_{ik} - 1 \wedge j_{sa}^{ik} < j_{ik} - 1 \wedge j_{sa} < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ls}, \dots, j_{sa}^{ik}, \dots, \mathbb{k}_1 - j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbf{n} - s = s + \mathbb{k}_1 + 1$$

$$\mathbb{k}_z: z = 2 \wedge (\mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \left(\sum_{k=1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right)$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - s)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{n = n - D}^{n + j_{sa} - s} \right) \cdot \\
& \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_{ik} = n - j_{ik} - \mathbb{K}_1 + 1)}^{n_i - j_{ik} - \mathbb{K}_1} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \cdot \\
& \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2 - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa} - j_{sa}^{ik})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D - j_{sa} - l_{sa} - s)!}{(n + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_i)} \sum_{(j_{ik}=\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_i)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_i)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \vee$$

$$(D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \vee$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}+j_{sa}-j_{sa}^{ik})} \sum_{j_{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) +$$

$$\begin{aligned}
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{\sum_{i=1}^n (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{ik} = l_i + n + j_{sa} - D - s}^{l_s + j_{sa} - 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_i = n + \mathbb{k} + 1) \wedge (n_{is} = n + \mathbb{k} - j_{ik})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(l_s - 2)!}{(n + j_{sa}^{ik} - j_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + j_{sa}^{ik} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n - l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \Bigg) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(\mathbf{l}_{ik})} \sum_{j_{sa}=j_{sa}^i+j_{sa}-j_{sa}^{ik}} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \frac{(\mathbf{l}_{ik}-j_{sa}^{ik}-1)!}{(\mathbf{l}_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}^s-s)!} \right) +$$

$$\left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{\mathbf{n}+j_{sa}-s} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \right)$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \sum_{k=1}^{\infty} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{(j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1)}^{n-j_{sa}-s} \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_i-j_{ik}-j_{sa}^{ik}+1)}^{(n_i-j_{ik}-j_{sa}^{ik}+1)} \sum_{(n_{ik}=j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)}^{n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2} \frac{(n_{ik}-j_{ik}-j_{sa}^{ik}-\mathbb{k}_1-1)!}{(j_{ik}-j_{sa}^{ik}-2)! \cdot (n_{ik}-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{ik}-j_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}-j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n-j^{sa}-n-1)! \cdot (n-j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \sum_{k=1}^{\infty} \sum_{(j_{ik}=l_t+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_{is}=n+\mathbb{k}_1+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{\infty} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\infty)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1).$$

$$(D \geq \mathbf{n} < n \wedge l_s > 0 \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^{l_{sa}} - j_{sa}^{ik} < j_{sa}^{l_{sa}} - 1 \wedge j_{sa}^s < j_{sa}^{l_{sa}} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^{l_{sa}}, \dots, j_{sa}^{l_{sa}}\} \wedge$$

$$s \geq 6, \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbf{s} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{\text{iso}} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{l_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{(n_i=n+\mathbb{K}_1)}^{n+j_{sa}-s} \sum_{(n_{sa}=\mathbf{n}-j^{sa}+1)}^{j_{sa}^{ik}+1} \frac{(n_i - j_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - j_{sa}^{ik} - j_{ik} - 1)! \cdot (n - j_{sa} - j^{sa} - s)!} \cdot$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i \wedge j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + j_{sa}^{ik} - j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i \wedge j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - j_{sa} < l_{sa} \leq D + l_s + j_{sa}^{ik} - j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\{j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s} \\
& \sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_{ik})}^{(n_i+\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_2}^{(n_{ik}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(j_{sa}^{ik} + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq \mathbf{n} - 1 \wedge l_s \leq D - \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa}^{ik} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} \leq l_{sa} \leq D - l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D - \mathbf{n}) \leq n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^i, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{n} \\
& \sum_{n_i = n + \mathbb{k}}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \sum_{n_{sa} = n - j^{sa}}^{(n_i - n_{ik} - \mathbb{k}_1 - 1)!} \\
& \frac{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_s + j_{sa}}^{n} \\
& \sum_{n_i = n + \mathbb{k}}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \sum_{n_{sa} = n - j^{sa} + 1}^{(n_i - n_{ik} - \mathbb{k}_1 - 1)!} \\
& \frac{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{l_{ik}+j_{sa}-j_{sa}^{ik}} j^{sa}=l_i+n+j_{sa}-D-s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{\binom{(n_i-1)+1}{(n_i-1)-j_{ik}}}$$

$$\frac{\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_1} \sum_{\binom{()}{j_{sa}^{ik}-\mathbb{k}_2}} (n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(n + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + j_{sa}^{ik} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n - 1 \wedge$$

$$j_{ik}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa}^{ik} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq n + j_{sa}^{ik} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa}^{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n - l_{sa} \leq D - l_s + j_{sa} - n - 1 \wedge$$

$$(D - n - n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s, \{j_{sa}^{sa}, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_{ik})}^{(n_i+\mathbb{k}+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_2}^{(n_{ik}=\mathbf{n}+j_{sa}^{ik}-\mathbb{k}_2)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(j_{sa}^{ik} + j_{sa} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq D - \mathbf{n} - 1 \wedge l_s \leq D - \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa}^{ik} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D - \mathbf{n}) \leq n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^i, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1}^{\binom{D}{j_{ik}}} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j_{sa}=j_{sa}+1}^{j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n - n + j_{sa} - n - 1)! \cdot (n - j_{sa} - 1)!}{(n_{ik} - j_{ik} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n_{sa} - l_{sa} - s)!}{(D - j_{sa} - n - l_{sa} - s)! \cdot (n + j_{sa} - j_{sa} - s)!} \cdot \\
& \sum_{k=1}^{\binom{D}{j_{ik}}} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j_{sa}=j_{sa}+1}^{j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \sum_{j_{sa}=j_{sa}+1}^{j_{sa}^{ik}} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z^{S_{j_{ik}, j_{sa}}} = & \sum_{k=1}^{(\quad)} \sum_{j_{ik} = j_{sa} + j_{sa}^{ik}}^{(\quad)} \sum_{j_{sa} = j_{sa} + 1}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{ik} = \mathbf{n} - \mathbb{k}_2 - j_{ik} + 1}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - \mathbb{k}_1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})}^{(\quad)} \sum_{j_{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{l_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik}}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - n - I)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}$$

$$D + s - n < l_i \leq D + l_s + s - n - 1)$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D + j_{sa} - n - l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D - n < n \wedge I = 0 > 0 \wedge$$

$$j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa}^s - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \leq 6 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2, \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j_{sa}=l_{sa}+n-D}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{s=1}^{(l_{ik} - j_{sa}^{ik} - D - j_{sa})} \sum_{j_{sa}^{ik} = j_{sa}^{ik} - D - j_{sa}}^{n + j_{sa} - s} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=l_{ik}+n+j_{sa}^{ik}-D-s)} j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - 1)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (j_{ik} + j_{sa}^{ik} - 1)!}{(l_s + j_{sa}^{ik} - j_{ik})! \cdot (j_{ik} + j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - \mathbb{k}_1 - \mathbb{k}_2)!}{(D + j_{sa} + s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{ik} \leq n + l_s + j_{sa}^{ik} - n \wedge$$

$$(D \geq n < n \wedge \mathbb{k}_1 + \mathbb{k}_2 > 0)$$

$$j_{sa} < j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} < j_{sa}^{ik} - 1 \wedge$$

$$s \cdot \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}_2 - j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 0 \wedge s = s +$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=l_{ik}+n-D)} j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\Delta} \sum_{l_{ik}+n-l_{sa}}^{(l_s+j_{sa}^{ik}-1)} \sum_{n_{sa}=j_{sa}^{ik}}^{(n_i-j_s+1)} \\
& \sum_{n_{is}=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}}^{(n_i-j_s+1)} \\
& \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(n_i-j_s+1)} \\
& \frac{(n_i - 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{\text{ISO}} = \sum_{k=1}^{\binom{D}{k}} \sum_{(j_{ik}=j_{sa}^s+j_{sa}^{ik}-j_{sa})}^{n+j_{sa}-s} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{ik}-j_{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_{ik}-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_i-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{sa}-n_{ik}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \sum_{k=1}^{\binom{D}{k}} \sum_{(j_{ik}=j_{sa}^s+j_{sa}^{ik}-j_{sa})}^{l_s+j_{sa}-1} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-l)!}{(n_i-n-l)! \cdot (n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} \text{iso}_{j^{sa}} &= \sum_{k=1}^{(\mathbf{n} + j_{sa} - s)} \sum_{j_{ik} = \mathbf{l}_i + j_{sa}^{ik} - D - s}^{j_{sa}^{ik} - D - s} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{j_{sa}^{ik} - D - s} \\ &\sum_{i=\mathbf{n}+\mathbb{K}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ &\sum_{k=1}^{(\mathbf{l}_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = \mathbf{l}_i + \mathbf{n} + j_{sa}^{ik} - D - s)}^{j_{sa}^{ik} - D - s} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{j_{sa}^{ik} - D - s} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - I)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} - j_{sa} - j_{sa}^{ik} - s)!} \cdot$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{ik} - 1 > l_i \wedge l_i + j_{sa} - s = l_s \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + j_{sa}^{ik} + j_{sa}^{ik} - \mathbf{n} - 1$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^{ik}, \dots, j_{sa}^i\}$$

$$s \geq \mathbf{n} \wedge s = s + \mathbb{k}$$

$$z: z = z + \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$fz S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{n+j_{sa}-s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\binom{D + j_{sa} - l_{sa} - s}{j_{ik} - j_{sa}^{ik} - 1}} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(l_{ik} + \mathbf{n} + j_{sa} - D - j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}$$

$$\sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})} \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}$$

$$\sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - l_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i + j^{sa} - l)! \cdot (\mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(\mathbf{n} + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge \mathbf{n} \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa} > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik} = l_{ik} + n - D)}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = l_{ik} + n + j_{sa} - D - s}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} + j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(n_{ik} + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\ \sum_{k=1} \sum_{(j_{ik} = l_{ik} + n - D)}^{(l_{ik})} \sum_{j^{sa} = l_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s} \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\sum_{i=1}^s (j_{ik} - j_{sa}^{sa} + j_{sa}^{ik} - j_{sa}^{sa})} \sum_{\substack{l_s = l_i + \mathbf{n} + j_{sa} - D - s \\ (n_i - j_s)}}^{l_s - a - 1} \sum_{n = \mathbf{n} + \mathbb{k}}^{(n_i - j_s)} \sum_{\substack{n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1 \\ (n_{ik} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}}^{(n_i - j_s)} \frac{(n_i + 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} - s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s \leq 1 \wedge l_s \leq D - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{ik} \leq j^{sa} \leq j_{sa} + j_{sa} - s \wedge$$

$$l_{ik} - l_s + 1 > l_s - l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - l_s \leq l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$\mathbf{n} > n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = l_{ik} + n - D)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{n + j_{sa} - s}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - s)} j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = n - j_{sa}^{ik} - j_{ik})}^{(n_i - \mathbf{n} + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - \mathbf{n} + 1)} \sum_{n_{ik} = j_{sa} - \mathbb{k}_2}^{(n_i - \mathbf{n} + 1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - I)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{jik, jsa}^{iso} = \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^a+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=j_{sa}^a+1}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^a+1}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}$$

$$\frac{(n_{ik}-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot$$

$$\frac{(n_{sa}-n_{sa}+\mathbb{k}_2-1)!}{(j_{sa}^a-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}^a-\mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}^a-n-1)! \cdot (n-j_{sa}^a)!} \cdot$$

$$\frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}^a-s)!} \cdot$$

$$\sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^a+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=j_{sa}^a+1}^{l_s+j_{sa}-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^a-\mathbb{k}_2}^{()}$$

$$\frac{(n_i+2 \cdot j_{sa}^a+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-l)!}{(n_i-n-l)! \cdot (n+2 \cdot j_{sa}^a+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_{z,j_{sa}}^{j_{sa}} &= \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \\ &\sum_{n=\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ &\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{sa}} \end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq \mathbf{n} + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa} < j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$j_{sa}^{ik} \geq 6 \wedge j_{sa}^{ik} > s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - s)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{sa}^{ik} = j_{sa}^{ik} + 1)}^{(l_s + j_{sa}^{ik} - k)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{(l_s + j_{sa}^{ik} - k)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i - \mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} \wedge \mathbf{n} \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik} j_{sa}}^{\text{iso}} = \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_{ik})} j_{sa}^{sa=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_{ik}-\mathbb{k}_1+1)}$$

$$\frac{(n_i - n_{is} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{is} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{l}_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) =$$

$$j_{ik}, j^{sa} = \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - j_s + 1)} \sum_{(n_{is} = n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)}^{(n_i - j_s + 1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - n_{is} - s - l_{sa} - I)!}{(n_i - n - I)! \cdot (n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - n_{is} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(n_i - j_s - 2)!}{(l_s + j_{sa} - j_{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - n_i)!}{(j^{sa} + s - n - l_i - j_{sa}^{ik})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s < D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa}^{ik} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D - n - n < l_i \leq l_s + s - n - 1 \wedge$$

$$(D \geq n - n \wedge I = \mathbb{k} > 0) \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \dots, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f^z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j_{sa}^{ik} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{(j_{ik}=l_i+n_{ik}^{ik}-D-s)}^{(l_{sa}+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i - \mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((\mathbf{n} - \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{sa}, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_z: \dots \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{j_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = j_{sa} + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbf{n}} \sum_{j_{sa}^{ik} = j_{sa}^{ik} + 1}^{(n_i - j_{sa}^{ik} - \mathbb{k}_1 + 1)} \sum_{j_{sa} = l_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}_1 - j_{sa}^{ik} + 1}^{\mathbf{n}} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{(n_i - j_{sa}^{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbf{n}} \sum_{j_{sa}^{ik} = j_{sa}^{ik} + 1}^{()} \sum_{j_{sa} = j_{sa}^{ik} + 1}^{l_s + j_{sa} - 1}
\end{aligned}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_1)}^{()}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_{sa} + s - \mathbf{n} - j_{sa} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - j_{ik} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_i \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1}^{(\mathbf{l}_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}-1} \sum_{j_{sa}=j_{sa}^{ik}-j_{sa}}^{\mathbf{l}_{sa}} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{n_{ik}=\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1)+1} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_i-j_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-\mathbb{k}_1-1)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \frac{(\mathbf{l}_{ik}-j_{sa}^{ik}-1)!}{(\mathbf{l}_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(\mathbf{l}_{sa}+j_{sa}^{ik}-\mathbf{l}_{ik}-j_{sa})!}{(j_{ik}+\mathbf{l}_{sa}-j_{sa}-\mathbf{l}_{ik})! \cdot (j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} - \sum_{k=1}^{(\mathbf{l}_s+j_{sa}^{ik}-k)} \sum_{j_{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}-1} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_i \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1)) \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = 1 = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+j_{sa}^{ik}}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_i - j_{ik} - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - j^{sa} - l_{sa} - s)!}{(D - j^{sa} - n - l_{sa} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - n - l)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$\begin{aligned} f_z S_{j_{ik}}^{iso} &= \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \\ &\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1}^{\sum} \sum_{(j_{ik}=j_{sa}^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_s+j_{sa}-1)} j_{sa}^{sa} = l_{sa} + n - D$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\sum} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(l_s+j_{sa}-1)}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2 - 1)!}{(n_i - n - l)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (l_s + j_{sa}^{ik} - l_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (D + j_{sa} + s - n - \mathbb{k}_1 - \mathbb{k}_2 - j_{sa})! \cdot (l_s + j_{sa} - j_{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n \leq l_{sa} \leq n + l_{ik} + j_{sa} - n - j_{sa}^{sa} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = l_{sa} + n - D}^{n_{sa} + j_{sa} - 1} \\
 &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 &\frac{(j_{ik} + l_{sa} - j^{sa} - l_{ik})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
 &\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_s + j_{sa}}^{n_{sa} + j_{sa} - 1} \\
 &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
 &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot
 \end{aligned}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^{\mathbf{n}} (l_{ik} - j_{sa}^{ik} - 1)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}-j_{sa}^{ik}-1)}$$

$$\sum_{(n_i - j_{sa}^{ik} - 1)}^{(n_i - j_{sa}^{ik} - 1)} \sum_{(n_i - j_{sa}^{ik} - 1)}^{(n_i - j_{sa}^{ik} - 1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-l_{k1}}^{(n_{ik}-j_{sa}^{ik}-1)} \sum_{(n_{ik}=n_{ik}+j_{ik}-j^{sa}-l_{k2})}^{(n_{ik}-j_{sa}^{ik}-1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - j_{sa}^{ik} - 1) \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^{ik} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$l_{sa} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - j_{sa} - 1)} \sum_{j_{ik} = j_{sa}^{ik} + 1}^{(n - j_{ik} - \mathbb{k}_1 + 1)} \sum_{j_{sa} = l_{sa} + n - D}^{(n - j_{sa} - \mathbb{k}_2 + 1)} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa}}^{n + j_{sa} - s} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - n_{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j^{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_{ik}-k+1+j_{sa}^{ik}-D+l_{sa})} \sum_{(n_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \cdot \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \cdot \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(l_{ik})} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(l_{sa})} \cdot \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(D \geq \mathbf{n} \wedge \mathbf{n} \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_s \wedge l_i + j_{sa} - s - j_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^l, \dots, \mathbb{k}_2, j_{sa}^s, \dots, j_{sa}^l\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_{ik} + n - D)} \sum_{j^{sa} = l_{sa} + n - D}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=n_{ik}+n-D}^{(n_{ik}+n-D)} \sum_{j_{sa}=n_{sa}+1}^{n+j_{sa}-s} j_{sa}^{ik+1}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{n_{ik}=n_{ik_2}-j_{ik}+1}^{(n_i-j_{ik}-1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 1)!}{(n_i - \mathbf{n} - 1)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - j_{sa}^{ik} - j_{ik} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} - 1 > l_s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_{ik} \leq D + j_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - (\mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik} j_{sa}}^{\text{iso}} = & \sum_{n=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{j_{ik} = l_{ik} + \mathbf{n} - D - j_{sa} - 1}^{n + j_{sa} - s} \sum_{j_{sa} = n - D}^{n + \mathbf{n} - D} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{ik} = n_{ik} - \mathbb{k}_2 - j_{ik} + 1}^{(n_i - j_{ik} - 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{\mathbb{k}} \sum_{j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa}}^{(l_{ik})} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{ik} - j_{sa}^{ik})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{ik} - j_{sa}^{ik})!} \cdot \\
& \frac{(\mathbf{n} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s+j_{sa}-1)} \sum_{j_{ik}=\mathbf{n}+j_{sa}^{ik}-D-s}^{(l_s+j_{sa}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}-1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l)!}{(n_i - \mathbf{n} - l)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \left(\sum_{k=1}^{\mathbf{n}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}^{ik}}^{\mathbf{l}_{sa}} \right. \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \left. \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \right) + \\ & \left(\sum_{k=1}^{\mathbf{n}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}+1}^{\mathbf{l}_{sa}} \right. \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \left. \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \right) \end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{l_{sa}=1}^{n_{sa}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_{sa}-\mathbb{k}_1+1)}^{(\)} \sum_{n_{sa}=n_{sa}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j_{sa}^{ik} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(n + s - n - l_i)!}{(n + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} =$$

$$l_{ik} \leq D + j_{sa}^{ik} - j_{sa} \wedge l_i \leq D + s - n$$

$$(D \geq n < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{ik}, \mathbb{k}_1, j_{sa}, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = n + \mathbb{k} \wedge$$

$$s = n + \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\)} \sum_{j_{sa}=j_{sa}}^{l_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - s)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j^{sa}=j_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1)}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\cdot)} \\
& \frac{(n_i - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (n - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(l_{sa} - j_{sa}^{sa} - s) < \mathbf{n} \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}^{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{sa} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} - j^{sa} - 1)! \cdot (n - j^{sa})!} \cdot \frac{(j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} - \sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_{sa}^{sa}=j_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}^{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n - \mathbb{k})! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{ik}+1}^{(n_{ik}+j_{ik}-j_{sa}+\mathbb{k}_2)} \\ &\frac{(n_i - j_{ik} - \mathbb{k}_1 + 1)!}{(j_{ik} - 2)! \cdot (n_i - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{ik} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} - \\ &\sum_{k=1}^{(\)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1)}^{(\)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ &\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\}$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z^{S_{j_{ik}, j_{sa}}} &= \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{sa}} \sum_{j_{sa}=j_{sa}}^{l_{sa}} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}} \sum_{j_{ik}=j_{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1)!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} - l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D - j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{n} - \mathbb{k} < 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{sa}^{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{sa}^{ik} - j_{sa}^{ik})!} \cdot \\
& \frac{(n + j_{sa} - n - s)!}{(n + j^{sa} - n - s)! \cdot (n - j^{sa} - j_{sa} - s)!} \cdot \\
& \sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_{sa}^{ik}=j_{sa}^{ik}}^{\binom{()}{j_{sa}^{ik}=j_{sa}^{ik}}} \sum_{j_{sa}^{ik}=j_{sa}^{ik}}^{\binom{()}{j_{sa}^{ik}=j_{sa}^{ik}}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{\binom{()}{j_{sa}^{ik}=j_{sa}^{ik}}} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - j_{ik} - j_{sa}^{ik} - 1)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq n \wedge l_s \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} \leq j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \right) + \\ & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}+1}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1) l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \right) \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} \frac{(n_i - j_{ik} - \mathbb{k}_1 + 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-\mathbb{k}_2)}^{n_{ik}+j_{ik}-\mathbb{k}_2} \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (n - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} S_{j_{ik}, j_{sa}}^{\text{iso}} = & \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}} \right. \\ & \sum_{n=\mathbf{n}+\mathbb{k}}^{(n_i-\mathbf{n}-\mathbb{k}_1+1)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (n - s)!} \right) + \\ & \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{lk}+1}^{l_{sa}} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{sa}^{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{sa}^{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - j_{sa} - l_{sa} - s)!}{((\mathbf{n} + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j^{sa} - j^{sa} - s)!)} \cdot \\
& \sum_{k=1}^{\binom{D}{s}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}+\mathbb{k}_1-j_{ik}-j^{sa}-\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - \mathbf{n} - \mathbb{k})! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} \wedge l_s = \mathbf{n} \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < \mathbf{n} \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^l - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^l\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} &= \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^s=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^{ik}-\mathbb{k}_2}^{(n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)} \\ &\frac{(n_i-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_i-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ &\frac{(n_{sa}-n_{ik}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \\ &\frac{(n_i+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-l_{sa})! \cdot (\mathbf{n}-s)!} - \\ &\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^s=j_{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(\quad)} \\ &\frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k})!}{(n_i-\mathbf{n}-\mathbb{k})! \cdot (\mathbf{n}+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\ &\frac{(D-l_i)!}{(D+s-\mathbf{n}-l_i)! \cdot (\mathbf{n}-s)!} \end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} -$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}^i, j_{sa}\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \dots + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j_{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}^{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{sa}-j_{sa}-\mathbb{k}_2}^{()} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k})!}{(n_i - n - \mathbb{k})! \cdot (n + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D + s - n - l_i)!}{(n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$\begin{aligned} & \sum_{k=1}^n \sum_{j_{ik}=l_s+n+j_{sa}^{ik}-D-1}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\ & \left(\sum_{k=1}^n \sum_{j_{ik}=l_s+n+j_{sa}^{ik}-D-1}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\ & \left. \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-k_2} \right) \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa} - j^{sa} + 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j^{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - 1)! \cdot (D + j_{sa} - n_{sa} - s)!} \cdot \\
& \sum_{k=1}^{\binom{n}{j_{ik}=j_{ik}^{ik}-j_{sa}^{ik}}} \sum_{\substack{j_{sa}^{ik}=n_{ik}-j_{sa}^{ik} \\ j_{sa}^{ik}=l_i+\mathbf{n}+j_{sa}-D-s}} \sum_{\substack{n_i=\mathbf{n}+\mathbb{k} \\ n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}}}^n \sum_{\substack{n_i=j_s+1 \\ n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}}}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{\substack{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2 \\ n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}}^{\binom{(\)}{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}}} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{\sum_{i=1}^n \sum_{k=1}^k (n_{ik} = n + k_2 - j_{ik} + 1)} \sum_{j_{sa}^{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - 1}^{(n + j_{sa}^{ik} - s)} \sum_{j_{sa} = j_{ik} + j_{sa}^{ik} - l_{sa} - 1}^{n + j_{sa} - s} \right. \\ \left. \sum_{n_i = n + k}^n \sum_{(n_{ik} = n + k_2 - j_{ik} + 1)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - k_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \right. \\ \left. \left(\sum_{k=1}^{\sum_{i=1}^n \sum_{k=1}^k (l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{j_{sa}^{ik} = l_{sa} + n + j_{sa}^{ik} - D - 1}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \right. \right. \\ \left. \sum_{n_i = n + k}^n \sum_{(n_{ik} = n + k_2 - j_{ik} + 1)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - k_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \right. \\ \left. \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) \right)$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+}$$

$$\sum_{n_i=\mathbf{n}+}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2}^{(j_{ik}-j_{sa}^{ik}-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_i-j_{ik}-j_{sa}^{ik}-1)}$$

$$\frac{(n_i - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{sa} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Big) -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\begin{aligned}
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()} \\
 & \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
 & \frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \\
 & \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D - l_i)!}{(D + j_{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j_{sa}^{ik} - \mathbb{k}_1)!}
 \end{aligned}$$

$$\begin{aligned}
 & ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
 & j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik})) \wedge \\
 & (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
 & j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
 & j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge \\
 & l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik})) \wedge \\
 & (D \geq n < n \wedge l_s = 0 \wedge \\
 & j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\
 & s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, l_{sa}, l_{ik}, j_{sa}^i\} \wedge \\
 & s \geq 0 \wedge s = s + \mathbb{k} \wedge \\
 & \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow
 \end{aligned}$$

$$\begin{aligned}
 f_z S_{j_{ik}, j_{sa}}^{iso} &= \left(\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
 & \left. \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) + \\
& \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - s)} \sum_{l_{ik} = l_{ik} + n - l_{sa} - s}^{n + j_{sa} - s} \sum_{n_i = n + l_{ik} - j_{ik} - l_{sa} - s}^{n_{ik} + j_{ik} - j^{sa} - l_{sa} - s} \right. \\
& \left. \sum_{n_i = n + l_{ik} - j_{ik} - l_{sa} - s}^{n_{ik} + j_{ik} - j^{sa} - l_{sa} - s} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \right. \\
& \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \right. \\
& \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \right. \\
& \left. \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \right. \\
& \left. \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \right. \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{()} \sum_{j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}}^{()} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{n + j_{sa} - s}
\end{aligned}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{sa} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D - j_{sa} + s - l_i - j_{sa}^{ik} - l_i - j_{sa} - j_{sa}^{ik} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik})) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik})) \wedge$$

$$(D \geq n < n \wedge l_s = \mathbb{k}_1 + \mathbb{k}_2 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s; \{j_{sa}^s, \mathbb{k}_1, j_{sa}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{iso} = & \left(\sum_{k=1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\
& \left(\sum_{k=1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left. \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - j_{ik} - 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} + j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\sum_{j_{ik}=l_s+n+j_{sa}^{ik}-D-1}^{(j_{sa}+j_{sa}^{ik}-s)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \sum_{j_{sa}^{ik}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} f_z S_{j_{ik}, j_{sa}}^{\text{ISO}}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(j_{sa}-s)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(j_{sa}-s)} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(j_{sa}-s)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j_{sa}+j_{sa}^{ik}-2 \cdot j_{ik}-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-j_{sa}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}{(l_s+j_{sa}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D+j_{sa}+s-n-l_i-j_{sa})! \cdot (n+j_{sa}-j_{sa}^{ik}-s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n - 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq n + j_{sa} - s$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D - n < n \wedge l_s \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, j_{sa}^{ik}, j_{sa}^{ik}\} \wedge$$

$$s \leq 4 \wedge l_s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(n+j_{sa}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{\binom{n+j_{sa}^{ik}-s}{j_{ik}=l_i+n+j_{sa}^{ik}-D-s}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\binom{n+j_{sa}^{ik}-s}{j_{ik}=l_i+n+j_{sa}^{ik}-D-s}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}}^{\binom{n_i-j_s+1}{n_{is}=n+\mathbb{k}+j_{sa}^{ik}}} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\binom{n_i-j_s+1}{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}} \sum_{n_{sa}=n_{ik}+j_{ik}+j_{sa}-\mathbb{k}_2}^{\binom{n_i-j_s+1}{n_{sa}=n_{ik}+j_{ik}+j_{sa}-\mathbb{k}_2}} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}^{ik}-\mathbb{k}_1+\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-1)!} \cdot \\
& \frac{1}{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}^{ik}-\mathbb{k}_1+\mathbb{k}_2)!} \cdot \\
& \frac{(n_i-j_s-2)!}{(l_s+j_{sa}-j_{ik}-s-1) \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-l_i)!}{(n_i+j_{sa}+s-n-l_i-j_{sa}^{ik})! \cdot (n+j_{sa}-j^{sa}-s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n - 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D - n < n \wedge I = 0 \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, j_{sa}^{ik}, j_{sa}^{ik}, j_{sa}^{ik}\} \wedge$$

$$s \leq 4 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2, \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{\binom{n+j_{sa}-s}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}=l_s+n+j_{sa}-D-1}^{\binom{n+j_{sa}-s}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} + 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - s)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(j_{ik}-j_{sa})} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(j_{ik}-j_{sa})} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(j_{ik}-j_{sa})} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(j_{ik}-j_{sa})} \\
& \frac{(n_{sa} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$fz S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-1)}^{(n+j_{sa}^{ik}-s)} j_{sa}=j_{ik}+j_{sa}^{ik} - j_{sa}^{ik} \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{j_{sa}=j_{ik}+j_{sa}^{ik}-j_{sa}^{ik}}^{(n_i-j_{ik}-k_1+1)} \\ \frac{(n_{ik}-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-k_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = j_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\}$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j_{sa}}^{isc} = \sum_{k=1}^{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{n+j_{sa}-s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \\
& \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s} \\
& \sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-l_{sa}}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-l_{sa}-l_{ik})}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot l_{sa} - l_{ik} - l_{ik_1} - l_{ik_2})!}{(n_i - n - l_{ik_1})!} \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}{(l_s - 2)!} \\
& \frac{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + j^{sa} + n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_s + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge l_s \geq l_s \wedge$$

$$j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} - j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, l_{k_1}, j_{sa}^{ik}, l_{k_2}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$l_{sa} = s + l_k \wedge$$

$$l_{k_z}: z = 2 \wedge l_k = l_{k_1} + l_{k_2}) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik})!}{(l_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik})} \sum_{(j_{ik}=l_i+n_{ik}^{ik}-D-s)}^{(n+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$j_{ik, j^{sa}} = \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n+j_{sa}-s)} j^{sa}=l_i+n+j_{sa}-D-s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1)!}$$

$$\frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}{(l_s - 2)!}$$

$$\frac{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_i + j_{sa} - j^{sa} - s - l_i)!}$$

$$\frac{(D + j^{sa} + n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}{(D + j^{sa} + n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n_{is}+j_{sa}^i-j_{ik}+1)}^{(n_{is}-k_1+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2)}^{(n_{is}-j_s+1)} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - j_{sa} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+k}^n \sum_{(n_{is}=n+k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-k_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge (\mathbf{n} + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge (\mathbf{n} + j_{sa} - s = l_{sa})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s - \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa} - \mathbb{k} \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^s - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, \dots, j_{sa}^s\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{\quad} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{\mathbf{n}+j_{sa}-s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\infty} \sum_{\substack{(\cdot) \\ j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}^{ik}, j_{sa}^{ik}=l_i+n+j_{sa}-l_{sa}-k}} \sum_{\substack{(\cdot) \\ j_{sa}^{ik}=l_i+n+j_{sa}-l_{sa}-k}} \cdot$$

$$\sum_{\substack{(\cdot) \\ j_{sa}^{ik}=l_i+n+j_{sa}-l_{sa}-k}} \sum_{\substack{(\cdot) \\ j_{sa}^{ik}=l_i+n+j_{sa}-l_{sa}-k}} \cdot$$

$$\sum_{\substack{(\cdot) \\ j_{sa}^{ik}=l_i+n+j_{sa}-l_{sa}-k}} \sum_{\substack{(\cdot) \\ j_{sa}^{ik}=l_i+n+j_{sa}-l_{sa}-k}} \cdot$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - k_1 - k_2)!}{(n_i - n - k_1 - k_2)!} \cdot$$

$$\frac{1}{(n - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$((D - l_s < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(n+j_{sa}-s)} \sum_{(j_{ik}=l_i+n-D)}^{(n+l_{sa}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+l_{sa}-s)} \sum_{n_i=n+\mathbb{k}}^{(n_i=n+\mathbb{k}-\mathbb{k}_1+1)} \sum_{(j_{sa}=n+\mathbb{k}_2-j_{sa}^{ik}-1)}^{(n_i=n+\mathbb{k}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{(n_i=n+\mathbb{k}-\mathbb{k}_1+1)} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, \dots, j_{sa}^s\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_{ik} + n - D)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{n + j_{sa} - s}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{sa} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=0}^{(j_{ik} - j_{sa}^{ik} - j_{sa})} \sum_{l=0}^{n + j_{sa} - s} \sum_{m=0}^{D-s} \sum_{n+l+k=n+l+k+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \sum_{n+l+k=n+l+k+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \sum_{n+l+k=n+l+k+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \\
& \frac{(n_i + j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l_{k_1} - l_{k_2})!}{(n_i - n - l_{k_1} - l_{k_2})!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_k \frac{(l_i + n - j_{sa}^{ik} - D - s - 1)!}{(j_{ik} - l_{ik} - D)!} \frac{n + j_{sa} - s}{j_{sa}^{sa} - D - s} \sum_{n_i=n+k}^n \sum_{n_{ik}=n_{sa}-j_{ik}+1}^{(n_i - j_{ik} - 1)!} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik} + j_{ik} - j_{sa} - k_2} \frac{(n_i - n_{ik} - 1)!}{(j_{sa}^{sa} - j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^n \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} + 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{sa}^{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{sa}^{ik} - j_{sa}^{ik})!} \cdot \\
& \frac{(n + j_{sa} - s)!}{(n + j^{sa} - \mathbf{n} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}-s)} \sum_{j_{sa}^{ik}=\mathbf{n}+j_{sa}^{ik}-D-s}^{j_{sa}^{ik}=\mathbf{n}+j_{sa}^{ik}-D-s} \sum_{j_{sa}^{ik}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{j_{sa}^{ik}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=\mathbf{n}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{ik}=\mathbf{n}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_{ik} + n - D)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - D}^{n + j_{sa} - s}$$

$$\sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^n (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{l_i = l_i + j_{sa}^{ik} - D - s}^{n - j_{sa} - s}$$

$$\sum_{n=n+\mathbb{k}}^{(n_i - j_s)} \sum_{(n_{i_1} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{ik} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa} = l_s + n - D}^{j_{sa} + j_{sa} - s} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{\substack{(n_i - j_{ik} - 1) \\ (\mathbb{k}_2 - j_{ik} + 1)}}^{(n_i - j_{ik} - 1) + 1} \sum_{\substack{n_{ik} + j_{ik} \\ n_{sa} = n - j_{sa} + 1}}^{n_{ik} + j_{ik} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik})!}{(j_{ik} - 2)! (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{sa} - n_{ik} - 1)!}{(j_{sa} - j_{ik} - 1)! (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \cdot \\ & \sum_{k=1}^{()} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j_{sa} = l_s + n + j_{sa} - D - s}^{n + j_{sa} - s} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\ & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{()} \end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s - \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa} - \mathbb{k} \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s \leq j_{sa}^s - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, \dots, j_{sa}^s\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{\text{iso}} = \sum_{k=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = l_s + \mathbf{n} + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_{sa} + \mathbf{n} - D}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{j_{ik}=l_i+n+j_{sa}^{ik}-D-j_{sa}}^{n+j_{sa}-s} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}$$

$$\sum_{n_i=n+l_k}^n \sum_{n_{ik}=n_{ik}-j_{ik}-l_k+1}^{n_i-j_{ik}-l_k+1} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-l_k+2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{j_{ik}=l_i+n+j_{sa}^{ik}-D-s}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!(j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D-j^{sa}+s-l_i-j_{sa}^{ik}-j_{sa}^{ik}-1)!(n+j_{sa}-j^{sa}-s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\
& (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee \\
& (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee
\end{aligned}$$

$$\begin{aligned}
& (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge
\end{aligned}$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} = & \sum_{k=1}^n \frac{(l_{sa} + n + j_{sa}^{ik} - D - 1)!}{(j_{ik} = l_{ik} + n - 1)!} \frac{n + j_{sa} - s}{j_{sa} = l_{sa} + n - 1} \\ & \sum_{n_i = n + k}^n \frac{(n_i - j_{ik} - k_1 + 1)!}{(n_{ik} = n + k_2 - j_{ik} + 1)!} \frac{n_{ik} + j_{ik} - j_{sa} - k_2}{n_{sa} = n - j_{sa} + 1} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^n \frac{(n + j_{sa}^{ik} - s)!}{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})} \frac{n + j_{sa} - s}{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\ & \sum_{n_i = n + k}^n \frac{(n_i - j_{ik} - k_1 + 1)!}{(n_{ik} = n + k_2 - j_{ik} + 1)!} \frac{n_{ik} + j_{ik} - j_{sa} - k_2}{n_{sa} = n - j_{sa} + 1} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot \frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa})!} \cdot \sum_{k=j_{ik}=j^{sa}-j_{sa}^{ik}}^{(\quad)} \sum_{j=j_{sa}^{ik}-D-s}^{\mathbf{n}+j_{sa}-s} \sum_{i=\mathbf{n}+\mathbb{K}}^{(n_i-j_s+1)} \sum_{n_{is}=\mathbf{n}+\mathbb{K}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{K}_1}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}^{(\quad)} \frac{(n_i + \mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{K}_1 - \mathbb{K}_2)!}{(n_i - \mathbf{n} - \mathbb{K}_1 - \mathbb{K}_2)!} \cdot \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(\mathbf{l}_s - 2)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sq}^{ik} \leq j_{ik} \leq j^{sa} + j_{sq}^{ik} - j_{sq} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sq} - \mathbf{n} < l_{sq} \leq D + l_{ik} + j_{sq} - \mathbf{n} - j_{sq}^{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik})}^{(j_{sa}-j_{sa}^{ik})} \sum_{j_{sa}=n-D}^{j_{sa}-j_{sa}^{ik}} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{n_{ik}=n_{ik}+\mathbb{k}_2}^{n_{ik}+\mathbb{k}_2} \\ &\frac{(n_i-j_{ik}-2)! (n_i-n_{ik}-j_{ik}+1)!}{(j_{ik}-2)! (n_{ik}+j_{ik}-n_{sa}-j_{sa}+1)!} \cdot \\ &\frac{(n_{sa}-1)!}{(j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ &\frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ &\frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} \cdot \\ &\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(j_{sa}-j_{sa}^{ik})} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(j_{sa}-j_{sa}^{ik}-\mathbb{k}_2)} \\ &\frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \end{aligned}$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa})!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

$$\begin{aligned} f^z S_{j_{ik}}^{\mathbb{K}} &= \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{(n + j_{sa}^{ik} - s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - j_s + 1)} \sum_{(n_{is} = n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)}^{(n_i - j_s + 1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n + j_{sa}^{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - j_{ik} - s - 2 \cdot j_{sa})!}{(l_s - 2)!} \cdot \\
& \frac{(j_{ik} + j_{sa}^{ik} - j_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + j^{sa} + j_{sa} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < j_{sa} \wedge I = \mathbb{k} \geq 1) \wedge$$

$$j_{sa} - j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik} - \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$j_{sa}^{ik} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{(n + j_{sa}^{ik} - s)} \sum_{j^{sa} = j_{sa} + 1}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \right)$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^{j^{sa}-j_{ik}-j_{sa}-1} \sum_{n_{ik}=j_{sa}^{ik}+1}^{(j^{sa}-j_{ik}-j_{sa}-1)l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j^{sa}=j_{sa}+2} \right) \\
& \sum_{n_i=n+\mathbb{k}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=n-j^{sa}+1} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{j_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\
& \frac{(n - n_{sa} - 1)!}{(n + j_{sa} - n_{sa} - 1)! \cdot (n - j_{sa} - 1)!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - n_{sa} - s)!}{(D + j_{sa} - n_{sa} - 1)! \cdot (n + j_{sa} - j_{sa} - s)!} \right) - \\
& \sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} S_{j_{ik}, j^{sa}}^{iso} = & \left(\sum_{k=1}^{(l_i)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa})} \right. \\ & \sum_{n=\mathbb{k}}^{(n_i-\mathbb{k}_1+1)} \sum_{(n_{ik}=\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\ & \left(\sum_{k=1}^{(l_i)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{sa}^{ik} - 1)!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(n + j^{sa} - n - l_{sa} - 1)! \cdot (n + j^{sa} - j^{sa} - s)!} \right) - \\
& \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_{z=2}^{SO} j_{sa}^{ik} &= \sum_{k=1}^{\mathbb{k}} \sum_{j_{sa}^{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}-j_{sa}+l_s+j_{sa}-1} \sum_{j_{sa}=j_{sa}+1}^{j_{sa}^{ik}-j_{sa}+l_s+j_{sa}-1} \\ &\sum_{n_{ik}=n_{ik}+\mathbb{k}}^n \sum_{n_{sa}=n_{sa}-j_{ik}+1}^{(n_{ik}-j_{ik}-\mathbb{k}_1+1) \cdot (n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\ &\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j^{sa} = l_s + j_{sa}}^{l_{sa}} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} + 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot \\
& \frac{(\mathbf{n} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(\cdot)} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\cdot)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\cdot)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{i_{ik}, j_{sa}}^{iso} = & \left(\sum_{k=1}^{\binom{l_{ik} + j_{sa} - j_{sa}^{ik}}{j_{sa}^{ik} - j_{sa} + 1}} \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \right. \\ & \frac{(n_i - n_{ik} - 1)!}{(n_i - j_{ik} - \mathbb{k}_1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{ik})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa}^{ik})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s)!} \right) + \\ & \left(\sum_{k=1}^{\binom{j_{sa} + j_{sa}^{ik} - j_{sa} - 1}{j_{sa}^{ik} - j_{sa} + 1}} \sum_{j_{sa}^{ik} = j_{sa} + 2}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \right) \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{j_{ik}=j_{sa}^{ik}+1}^{(n_i-j_{sa}^{ik}-l_{k_1}+1)} \sum_{j_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) - \\
& \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \cdot \frac{(j_{ik}-j_{sa}^{ik}-1)!}{(j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-\mathbf{l}_i)!}{(D-j^{sa}+s-\mathbf{l}_i-j_{sa}^{ik} \cdot (n+j_{sa}-j^{sa}-s))!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s = \mathbb{k}_1 + 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = \mathbf{n} + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \leq \mathbf{n} - \mathbf{s} \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \left(\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \right)$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{lk} - 1)} \sum_{j_{ik}=j_{sa}^{lk}+1}^{l_s + j_{sa} - 1} \sum_{j_{sa}=j_{sa}^{lk}+2}^{l_s + j_{sa} - 1} \right) \cdot \\
& \sum_{n_i=n+l_k}^n \sum_{n_{ik}=n_{ik}-j_{ik}+1}^{(n_i - j_{ik} - l_{sa} - l_{ik})} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - l_{sa} - l_{ik}} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{lk} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{lk} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{lk} - 1)} \sum_{j_{ik}=j_{sa}^{lk}+1}^{l_s + j_{sa} - 1} \sum_{j_{sa}=l_s + j_{sa}}^{l_{sa}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} + 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa}^{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(n + j_{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = k \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_z^{ISO} j_{ik, j_{sa}} = \left(\sum_{k=1}^{(l_{ik})} \sum_{j_{sa}^{ik}=j_{sa}}^{l_{sa}} \sum_{j_{sa}^{ik}=j_{sa}}^{l_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+k}^n \sum_{n_{ik}=n+k_2-j_{ik}+1}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{l_{ik}} \sum_{j_{sa}^{ik}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \sum_{n_i=n+k}^n \sum_{n_{ik}=n+k_2-j_{ik}+1}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \right. \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \right)$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa} - j_{sa})!} \cdot \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (j^{sa} + j_{sa} - j^{sa} - 1)!} \cdot \sum_{k=1}^{(\mathbf{l}_{ik} - k + 1)} \sum_{s=0}^{(n_{ik} - j_{sa}^{ik} - 1)} \sum_{n_{is}=\mathbf{n} + \mathbb{K}}^{(n_{is} - j_s + 1)} \sum_{n_{sa}=\mathbf{n}_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{K}_1}^{(n_{sa} - \mathbf{n}_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2)} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{K}_1 - \mathbb{K}_2)!}{(n_i - \mathbf{n} - \mathbb{K}_1 - \mathbb{K}_2)!} \cdot \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(\mathbf{l}_s - 2)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$n > n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{l_{sa}} \right. \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{l_{sa}} \right. \\ \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \left. \right)$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik}=j_{sa}^{ik} + \mathbb{k}_1, j^{sa}=j_{ik} + j_{sa} - j_{sa}^{ik})} \sum_{(j_{sa}=j_s + 1)}$$

$$\sum_{n_{is}=\mathbb{k}_1}^{(j_s + 1)} n_{is} \sum_{\mathbb{k}_2} (n_{is} = \mathbf{n} + \mathbb{k}_1 + j_{sa}^{ik} - j_{ik})$$

$$\sum_{n_{is}=\mathbb{k}_1}^{(j_s + 1)} \sum_{(n_{sa}=n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)} (n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D > \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{l_{sa}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{sa}^{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1)} \sum_{n_{sa} = n - j_{sa}}^{(n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - j_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{ik} - j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} -$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \geq 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-1} \right.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) + \\
& \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = l_{sa} + n - D}^{n - j_{sa} - 1} \right. \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_{sa} + j_{sa}}^{n - j_{sa} - 1} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot
\end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\sum_{k=1}^{\sum_{i=1}^s (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{l_i = l_i + \mathbf{n} + j_{sa} - D - j^{sa} - j_{sa}^{ik} + j_{ik}}^{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}$$

$$\sum_{n_{is} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - j_{ik}}^{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{n_{is} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - j_{ik}}^{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}$$

$$\sum_{n_{is} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - j_{ik}}^{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}^{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(l_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{1}{(2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D > l_i - \mathbf{n} \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^{\sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})} (l_s+j_{sa}^{ik}-1)} \sum_{j_{sa}=j_{sa}-j_{sa}^{ik}}^{(n_i-j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j_{sa}^{ik}-\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1)} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} \right) +$$

$$\left(\sum_{k=1}^{\sum_{(j_{ik}=j_{sa}^{ik}+1)} (l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \right)$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{n + j_{sa}^{ik} - s} \sum_{(j_{sa} = j_{ik} + j_{sa}^{ik} + 1)}^{n + j_{sa}^{ik} - s} \\
& \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_i - j_{ik} = j_{sa}^{ik} - 1)}^{(n_i - j_{ik} - 1)} \sum_{(n_{ik} = n - j_{sa} + 1)}^{n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{K}_2} \\
& \frac{(n_i - n_{ik})!}{(n_i - j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{sa} - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{(l_{ik})} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_{is} = n + \mathbb{K}_1 + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{K}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2)}^{()}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik})) \wedge$$

$$(D \geq n < n \wedge l_s - \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa} \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik} - \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq j_{sa}^{ik} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \left(\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right)$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^n \sum_{\substack{j_{ik}=n_{ik}-j_{ik}+\mathbb{k}_1 \\ j_{sa}^{ik}=n_{sa}-j_{sa}+\mathbb{k}_2}} \sum_{n_{ik}=n_{ik}-j_{ik}+\mathbb{k}_1}^{n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2} \sum_{n_{sa}=n_{sa}-j_{sa}+\mathbb{k}_2}^{n_{sa}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2} \right) \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^n \sum_{\substack{j_{ik}=j_{sa}^{ik}+1 \\ j_{sa}^{ik}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}}^{(l_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\mathbf{n}+j_{sa}-s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} + 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j^{sa} - j_{sa}^{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D - j_{sa} - l_{sa} - s)!}{(n + j^{sa} - n - l_{sa})! \cdot (n + j^{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{\Delta} \sum_{(j_{ik} - j_{sa}^{ik} - j_{sa})}^{(j_{ik} - j_{sa}^{ik} - j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_2)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s \geq 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \bigg) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \bigg) \wedge$$

$$fz S_{j_{ik}^{sa}} = \left(\sum_{i=1}^{(l_{ik})} \sum_{(j_{ik}=\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})} j^{sa} \sum_{j_{sa}^{ik}=\mathbf{l}_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right.$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(j_{ik} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - l_{sa} - l_{ik} + j_{sa} - j_{sa}^{ik})} \sum_{(j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - l_{sa} - l_{ik} + j_{sa} - j_{sa}^{ik})}$$

$$\sum_{(n_i = j_s + 1)}^{(n_i - j_s + 1)} \sum_{(n_i + \mathbb{k}_1 + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{(n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2)}^{(n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2)} \sum_{(n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2)}^{(n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$j_{sa} - j_{sa}^{ik} - 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - l_{sa})} \sum_{j_{ik} = j_{sa}^{ik} + 1}^{l_{ik} + j_{sa}^{ik} - l_{sa}} \sum_{j_{sa} = l_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{l_{ik} + j_{sa}^{ik} - l_{sa}} \frac{(n_i - j_{ik} - \mathbb{k}_1 + 1) \cdot (n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}{(n_i - j_{ik} - \mathbb{k}_1 + 1) \cdot (n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(l_{ik})} \sum_{j_{ik} = j_{sa}^{ik} + 1}^{n + j_{sa} - s} \sum_{j_{sa} = l_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s} \frac{(n_i - j_{ik} - \mathbb{k}_1 + 1) \cdot (n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}{(n_i - j_{ik} - \mathbb{k}_1 + 1) \cdot (n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)} \cdot \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{sa} - n_{sa} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} +$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j^{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik}-j_{sa})}^{()} \sum_{(j_{ik}=l_i+n+j_{sa}-D-s)}^{()} \sum_{(n_i=n+l_k)}^n \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-l_{k_1})}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2})}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l_{k_1} - l_{k_2})!}{(n_i - \mathbf{n} - l_{k_1} - l_{k_2})!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz^{j_{ik}} = \sum_{k=1}^n \sum_{(l_{ik}-j_{sa}^{ik}+1)}^{(l_i+n+j_{sa}^{ik}-s-1)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_i - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} & \sum_{j_{ik}, j_{sa}^{ik}}^{(j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{ik} = l_i + n + j_{sa} - D - s}^{l_s + j_{sa} - 1} \\ & \sum_{i=n+\mathbb{K}}^n \sum_{(n_i - j_{ik} - \mathbb{K}_1 + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{lk} + 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_s + j_{sa}} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa}}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\
& \frac{(n - \mathbf{n} - 1)!}{(n_i + j_{sa} - \mathbf{n} - 1)! \cdot (n - j_{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{lk} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{lk} - l_{ik} - 1)!}{(j_{ik} + j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{lk} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \cdot \\
& \sum_{k=1}^{(\quad)} \sum_{(j_{ik} = j_{sa}^{lk} + j_{sa}^{lk} - j_{sa})}^{l_{ik} + j_{sa} - j_{sa}^{lk}} \sum_{j_{sa} = l_i + \mathbf{n} + j_{sa} - D - s} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{lk} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{lk} - \mathbb{k}_1}^{(\quad)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{lk} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{lk} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{lk} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{lk} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} C_{j_{sa}}^{iso} &= \sum_{k=1}^n \sum_{(i_{ik}=1) \atop (j_{ik}=1)}^{(l_i+n+j_{sa}^{ik}-s-1)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\ &\sum_{i=n+\mathbb{K}}^n \sum_{(n_i=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} + j^{sa})!} \cdot \\
& \frac{(n_i - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{(l_{ik})} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{(l_{ik})} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(n_{is})} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(n_{is})} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}^{sa}} &= \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\sum_{i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\ &\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!(j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D-l_s+s-n-l_i-j_{sa}^{ik} \cdot (n+j_{sa}-j_{sa}^{ik}-s))!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_s + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa} \wedge$$

$$(D \geq n < n \wedge l_s = \mathbb{k} \leq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = \dots + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \leq \dots \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik} j^{sa}}^{\text{iso}} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - n_{sa} + 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n_i - j_{sa} + 1)} \sum_{j_{ik}=j_{sa}^{ik} - j_{sa}}^{(l_{ik} + j_{sa} - j_{sa}^{ik})} \sum_{j_{sa}=n_{ik} - D - s}^{(n_{ik} - j_{sa} + 1)} \sum_{n_{is}=n + \mathbb{k} + j_{sa}^{ik} - j_{ik}}^{(n_{is} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n - 1 \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{sa}}^{iso} = \sum_{k=1}^{l_{sa} + \mathbf{n} + j_{sa}^{ik} - j_{sa} - 1} \sum_{(j_{ik} + j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + \mathbf{n} - D}^{n + j_{sa} - s} \frac{(n_i - j_{ik} - \mathbb{k}_1 + 1)}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \sum_{k=1}^{(j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa})} \sum_{(l_{ik})}^{n + j_{sa} - s} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} + 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{sa}^{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{sa}^{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(n + j_{sa} - n - s)!}{(n + j^{sa} - n - 1)! \cdot (n - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik} + j_{sa}^{ik} + j_{sa}^{ik} - D - s)}^{(l_i + j_{sa}^{ik} - j_{sa}^{ik} - D - s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{ik} \leq D + \mathbf{l}_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{\mathbf{l}_{ik} + \mathbf{n} - D} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{j_{sa}^{ik} - 1} \frac{(n_i - j_{ik} - \mathbb{k}_1 + 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} -$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{ik} = l_{ik} + \mathbf{n} - D}^{j_{sa}^{ik} - 1} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{j_{sa}^{ik} - 1}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik}}^{(n_i - j_s + 1)}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n - \mathbb{k}_1 - \mathbb{k}_2)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n_{ik} + j_{sa} - j^{sa} - \mathbb{k}_2)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} + j_{sa} - s = l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{sa} - j_{sa} = n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^i \leq j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s - \mathbb{k}_1, j_{sa}^{ik} - \mathbb{k}_2, j_{sa}^i - \mathbb{k}_1, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + 1 \wedge$$

$$\mathbb{k}_Z: 2 \leq \mathbb{k}_Z \leq 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}
\end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^s (l_i + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}) \wedge (j_{sa}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{n_i=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik}} \sum_{(n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_1) \wedge (n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(\mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n+j_{sa}-j_{sa}^{ik}+1}^{(n_{ik}+j_{ik}-j^{sa}-1)} \\ \frac{(n_i-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j^{sa}-j_{ik})! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!} - \\ \sum_{k=1}^{(l_s+j_{sa}^{ik}-1)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}^{ik}-1)} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{ik}-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}-j_s+1)} \\ \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} \epsilon_{iso}^{sa} &= \sum_{k=1}^{\mathbb{K}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{n+j_{sa}-s} \\ &\sum_{i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ &\sum_{k=1}^{\mathbb{K}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_s+j_{sa}-1} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \cdot \frac{(j_{ik}-j_{sa}^{ik}-1)!}{(j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D+l_i)!}{(D+l_s+s-n+l_i-j_{sa}-j_{sa}^{ik}-j_{sa}-s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_s \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq n < n \wedge l_s = \mathbb{k}_1 + 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = \mathbb{k}_1 + \mathbb{k}_2 \wedge$$

$$\mathbb{k}_2 \leq \mathbb{k}_1 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1}^{(j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(j_{ik}=l_{ik}+n-D)}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j_{sa}=l_i+n+j_{sa}-D-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{j_{ik}=l_{ik}+n-D}^{(n_i-j_{ik}+n-D)} \sum_{j_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{(n_i-j_{ik}+n-D)} \\
& \sum_{n_i=\mathbf{n}+j_{sa}^{ik}+l_{ik}+l_{k_2}-j_{ik}+1}^{(n_i-j_{ik}+n-D)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_i-j_{ik}+n-D)} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{()} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-1}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \\
& \frac{(l_i+l_s)!}{(D+j_{sa}+s-1-l_i-j_{sa})! \cdot (n+j_{sa}-j_{sa}^{ik}-s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{ik} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_s \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq n < n \wedge l_s = \mathbb{k}_1 + 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = \mathbb{k}_1 + \mathbb{k}_2 \wedge$$

$$\mathbb{k}_2 \leq \mathbb{k}_1 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{(j_{ik}=l_{ik}+n-D)}^{n+j_{sa}-s} \sum_{j_{sa}=l_i+n+j_{sa}-D-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=l_i + \mathbf{n} + j_{sa}^{ik} - D - s)}^{(l_{sa} + j_{sa}^{ik} - 1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa} + j_{sa}^{ik} - 1)} \cdot \\
& \sum_{n_i=\mathbf{n}+l_{sa}}^{\mathbf{n}} \sum_{n_{ik}=\mathbf{n}+l_{sa}+l_{ik}+1}^{(n_i-j_{sa}^{ik}-l_{k_1}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=l_i + \mathbf{n} + j_{sa}^{ik} - D - s)}^{(l_{sa} + j_{sa}^{ik} - 1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa} + j_{sa}^{ik} - 1)}
\end{aligned}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D - j_{sa}^{sa} + s - l_i - j_{sa}^{sa} - l_i - j_{sa}^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - l_i \wedge l_i \leq D + s - l_i \vee$$

$$(D \geq n < n \wedge l_s > 1) \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + j_{sa}^{ik} - l_i - (n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa}^{sa} - j_{sa}^{sa} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{\text{ISO}} = & \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_i - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1}^{()} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}}^{()} \sum_{j_{sa}=j_{sa}+1}^{l_{sa}} \\ &= \sum_{n_i=n+\mathbb{K}}^n \sum_{n_{ik}=n+\mathbb{K}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \\ &= \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\quad \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &= \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\ &\quad \sum_{k=1}^{()} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}^{ik}-j_{sa}}^{()} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{l_{sa}} \end{aligned}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(l_s - 2)!}{(l_s + j_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(D - j_{sa} + s - l_i - j_{sa}^{ik} - l_i - j_{sa} - j_{sa}^{ik} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s \leq 1 \wedge l_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - l_{sa})) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{iso} = & \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n - n_{sa} - 1)!}{(n + j^{sa} - n_{sa} - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n_{sa} - l_{sa} - s)!}{(D - j^{sa} - n - l_{sa} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(j_{sa}^{ik}-k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}^{ik}-k)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_t)!}{(D + j^{sa} + s - n - l_t - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_s + s - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2)} \sum_{n_i=\mathbf{n}+\mathbb{K}}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{(n_{ik}+j_{ik}-n_{sa}-j_{sa}^{ik}+1)} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{ik}-j_{ik}-1)!} \cdot \frac{(j_{ik}-j_{sa}^{ik}-1)!}{(j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D+l_i)!}{(D+l_s+s-1+l_i-j_{sa}^{ik} \cdot (n+j_{sa}-j_{sa}^{ik}-s))!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - 1 \wedge l_i \leq D + s - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = \mathbf{n} + \mathbb{k} \wedge$$

$$\mathbb{k}_1 + \mathbb{k}_2 = \mathbb{k} \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z^{ISO}_{j_{ik}, j^{sa}} = \sum_{k=1}^{(l_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - n_{sa} + 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=j_{sa}^{ik}-1}^{(l_s+j_{sa}^{ik}-1)} \sum_{j=j_{sa}^{ik}+1}^{j_{sa}^{ik}-j_{sa}} \sum_{i=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} - j_{sa} + j_{sa} - j_{sa}^{ik})} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(\mathbb{k}_1 = j_{ik} + 1)}^{(n_i - j_{ik} + 1)} \sum_{(\mathbb{k}_2 = n - j_{sa} + 1)}^{(n_{ik} + j_{ik} - \mathbb{k}_2)} \\ & \frac{(n_i - n_{ik})!}{(j_{ik} - 2)! (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{sa} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \cdot \\ & \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\ & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{(\quad)} \\ & \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \end{aligned}$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D > \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = j_{sa} + 1}^{j_{sa}^{ik} - j_{sa}^{ik} - 1} \\ &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa}^{ik} - \mathbb{k}_2}^{n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{ik} - j_{sa} - j_{sa}^{ik} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \\ &\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j_{sa} = l_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{l_{sa}} \\ &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa}^{ik} - \mathbb{k}_2}^{n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{l_s} \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}-1} j_{sa}^{sa-1}$$

$$\sum_{n_{is}=n+l_k+j_{sa}^{ik}-j_{ik}}^{n_{is}=n+l_k+j_{sa}^{ik}-j_{ik}+j_s+1} (n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})$$

$$\sum_{n_{is}=n+l_k+j_{sa}^{ik}-j_{ik}-l_{k_1}}^{n_{is}=n+l_k+j_{sa}^{ik}-j_{ik}-l_{k_1}-1} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}}^{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}-1}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l_{k_1} - l_{k_2})!}{(n_i - \mathbf{n} - l_{k_1} - l_{k_2})!}.$$

$$\frac{1}{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D - \mathbf{n} \leq n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_s \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_s \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^i = j_{sa} - 1 \wedge j_{sa}^{ik} \leq j_{sa}^i - 1$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^s - \mathbb{K}_2, j_{sa}^i, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + 1$$

$$\mathbb{K}_Z: \mathbb{Z} \geq 2 \wedge \mathbb{K} = \mathbb{K}_1 + 1) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + j_{sa} - j_{sa}^{ik} - k)} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} - k)}$$

$$\sum_{n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik}}^{(j_s + 1)}$$

$$\sum_{n_{is} = j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{(n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{1}{(2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D - \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^n \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n-j_{sa}-\mathbb{k}_1+1)} \sum_{n_{ik}=n+\mathbb{k}}^{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \sum_{k=1}^n \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D+l_i)!}{(D+j_{sa}^s+s-n+l_i-j_{sa}^{sa} \cdot (n+j_{sa}-j_{sa}^{sa}-s))!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1) \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1) \wedge$$

$$D + s - \mathbf{n} + 1 \leq D + l_s + s - \mathbf{n} - j_{sa}^{sa} \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
 &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - \mathbb{k}_k + 1)!} \\
 &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \mathbb{k}_2)!} \cdot \\
 &\frac{(n_{sa} - 1)!}{(n_{sa} - j^{sa} - 1)! \cdot (n - j^{sa})!} \cdot \\
 &\frac{(j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})!} \frac{(n + j_{sa} - j^{sa} - s)!}{(n + j_{sa} - j^{sa} - s)!} - \\
 &\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{lk}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+n-D}^{l_s+j_{sa}-1} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
 &\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
 &\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
 &\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - j_{sa}^{ik} = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - j_{sa}^{ik}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - \mathbb{K} \wedge j_{sa}^s \leq j_{sa}^{ik} - \mathbb{K} \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = l_{sa} + \mathbf{n} - D}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{l_s + j_{sa}^{ik} - n + j_{sa} - s} \sum_{j_{ik}=j_{sa}^{ik}+1}^{j_{ik}=j_{sa}^{ik}+1} j^{sa}=l_s+j_{sa}^{ik}-j_{ik}-j_{sa}$$

$$\sum_{n_i=n+l_{sa}-j_{ik}}^n \sum_{n_{ik}=n+l_{sa}-j_{ik}+1}^{n_{ik}=j_{ik}-j_{sa}^{ik}-1} n_{sa}=n-j^{sa}+1$$

$$\frac{(n_i - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{sa} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - j_{sa})! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}-j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}$$

$$\sum_{n_i=n+l_{sa}}^n \sum_{n_{is}=n+l_{sa}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - 1)!}{(D + j_{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \\
& D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge \\
& D + s - \mathbf{n} < l_i \leq D + l_{sa} + j_{sa} - \mathbf{n} - j_{sa}) \vee \\
& (D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
& D + j_{sa} - \mathbf{n} < l_{sa} \leq D + (l_s + j_{sa} - \mathbf{n} - 1)) \wedge \\
& (D > \mathbf{n} < n \wedge l = \mathbb{k} \geq 0 \wedge \\
& j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge \\
& l_{sa} \in \{j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge \\
& s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge \\
& \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow
\end{aligned}$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \\
& \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s+j_{sa}^{ik}-1)} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{n+j_{sa}-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}-j_{ik})}^{(n_i+\mathbb{k}+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot$$

$$\frac{1}{(\mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} - s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n) \wedge \mathbf{n} > 1 \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{ik} + 1 > l_s - j_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n) \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) =$$

$$j_{ik,j^{sa}}^{ISO} = \sum_{k=1}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(j_{ik}=l_{ik}+n-D)}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j_{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\begin{aligned}
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{(l_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2)} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{sa} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{is} - l_{sa} - 1)!}{(j^{sa} - 1)! \cdot (n_{ik} + j_{ik} - l_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{is} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(n_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot
\end{aligned}$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa})!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} = & \sum_{k=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = l_{ik} + \mathbf{n} - D)}^{n + j_{sa} - s} \sum_{j_{sa}^s = j_{sa} + \mathbf{n} - D}^{n + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa} - j_{sa} - j_{sa}^{ik} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa})}^{(l_{ik})} \sum_{j_{sa}^s = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \end{aligned}$$

$$j_{sq} \leq j_{sq}^i - 1 \wedge j_{sq}^{ik} = j_{sq} - 1 \wedge j_{sq}^s \leq j_{sq}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j_{sa}=j_{sa}^{sa}+1}^{(\cdot)} \right. \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \left. \frac{(D + j_{sa} - \mathbf{n} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) + \\ & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\cdot)} \sum_{j_{sa}=j_{sa}^{sa}+1}^{l_{sa}} \right. \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j_{sa} - l_{ik})! \cdot (j_{sa} - j_{sa})!} \cdot \\ & \left. \frac{(D + j_{sa} - \mathbf{n} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \right) - \end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}}$$

$$\frac{\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - 1)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = (\mathbb{k}_1 + \mathbb{k}_2)$$

$$f_Z^{S_{j_{ik}, j^{sa}}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik}, j_{sa}^{sa}=j_{sa})} \sum_{j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1, n_{sa}=\mathbf{n}+\mathbb{k}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \sum_{j_{sa}}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa}^{sa} - 2 \cdot j_{sa})!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2) \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq j_{sa}^{sa} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa}^{sa} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} =$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{n} - \mathbb{k} \geq 0)$$

$$j_{sa}^{sa} = j_{sa}^{sa} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^{sa} \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4, s = s + 1$$

$$\mathbb{k}_z: z = 2, \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \cdot \\
& \sum_{k=0}^n \sum_{l=0}^{(n-k)} \sum_{j_{sa}=j_{sa}}^{(n-k-l)} \\
& \sum_{j_{ik}=n_i+l_k}^n \sum_{j_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}}^{(n-k-l-j_{ik}+1)} \sum_{j_{sa}=j_{sa}}^{(n-k-l-j_{ik}+1)} \\
& \frac{(n_i + 2 \cdot j_{sa}^{ik} - j_{ik} - s - l_{k_1} - l_{k_2})!}{(n_i - n - l_{k_1} - l_{k_2})! \cdot (n_i + 2 \cdot j_{sa}^{ik} - j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq n \wedge n - l_s = 1 \wedge l_a \leq D + j_{sa} -$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} - j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa}^{ik} - j_{sa}^{ik} \leq j^{sa} - n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + l_{sa} \geq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D + s) \leq n \wedge l - l_{k_1} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$(s - j_{sa}^{ik}, l_{k_2}, j_{sa}, \dots, j_{sa}^i) \wedge$$

$$s \geq 4 \wedge s = s + l_k \wedge$$

$$l_k: z = 2 \wedge l_k = l_{k_1} + l_{k_2} \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{lk})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_i - n_{ik} - 1)!}{(n_i + j^{sa} - n_{ik} - 1)! \cdot (n - j^{sa} - n_{ik} - 1)!} \cdot \frac{(n_{ik} - j_{sa}^{lk} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{lk} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{lk})}^{(\quad)} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\quad)}$$

$$\frac{(n_i - \mathbf{n} + 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$((\mathbf{n} \geq n \wedge \mathbf{n} \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{i s} &= \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}}^{l_{sa}} \\ &\sum_{n_{ik}=\mathbf{n}-j_{sa}+\mathbb{k}}^n \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{(n_{ik}-\mathbb{k}_1+1)} \frac{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)!}{(n_{ik}-\mathbb{k}_1+1)! \cdot (n_{sa}=\mathbf{n}-j_{sa}+1)!} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1}^{\binom{()}{}} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - l_i)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbf{n} > 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^i - 1 \wedge j_{ik} = j_{sa}^i - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{ik}, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, j_{sa}^i\} \wedge$$

$$j_{sa}^i \geq 4 \wedge j_{sa}^i \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z \leq 2 \wedge \mathbb{k}_Z \leq (\mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - n - l_{sa})! \cdot (D + j_{sa} - j^{sa} - 1)!} \cdot$$

$$\sum_{k=1}^{(\cdot)} \sum_{s=1}^{(\cdot)} \sum_{j_{sa}=j_{sa}}$$

$$\sum_{n_{ik}=n_{ik}+\mathbb{k}}^n \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 1)! \cdot (j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n_{sa} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n_{sa} - 2 \cdot j_{sa}^{ik} - j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n \wedge l_i = 1 \wedge n_{sa} \leq D + j_{sa} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \geq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D - n_{sa}) \leq n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s \in \{1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{iso} = & \left(\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) + \\
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left. \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - j_{ik} - 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - j_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - j_{sa})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}^{ik}-j_{sa}^{ik}+1}^{(l_{sa})} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) + \\ & \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}^{ik}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \left. \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \right) \end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i=n+\mathbb{k} \wedge (n_i+l_i-j_{ik}-\mathbb{k}_1)=0) \wedge n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s + 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{sa} \leq j^{sa} + j_{sa} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} + j^{sa} \leq n - j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_s \leq D - n - n \wedge$$

$$(D \geq n < n \wedge n - \mathbb{k}_1 = 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s; \{j_{sa}^s, \mathbb{k}_1, j_{sa}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}^{()}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} + 1)!}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa})!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - j_{sa})!}$$

$$\sum_{k=1}^{\mathbb{k}} \sum_{j_{ik}=\mathbf{n}-j_{sa}+1}^{j_{ik}-\mathbf{n}+1} \sum_{j_{sa}=\mathbf{n}-j_{ik}+1}^{j_{sa}-\mathbf{n}+1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}-j_{ik}-\mathbf{l}_{ik}+1)}^{(n_i-j_{ik}-\mathbf{l}_{ik}+1)} \sum_{n_{sa}=\mathbf{n}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + j^{sa} + 2 \cdot j_{ik} - 2 \cdot j_{sa} - \mathbf{l}_{sa} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_2)! \cdot (\mathbf{n} - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!}$$

$$(\mathbf{n} \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} - j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{sa} \leq D + s - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n) \wedge$$

$$(D \geq n < n \wedge l = k \geq 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 4 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$\begin{aligned} f_{Z=1}^{iso} j^{sa} &= \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}^{l_{sa}} \\ &= \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-k_2} \\ &= \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\quad \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot \\ &\quad \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - \mathbf{l}_i)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2$$

$$S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{\mathbf{n}+j_{sa}-s} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \right)$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) + \\
& \left(\sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \right. \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = j_{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - 1} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(j_{ik} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{n + j_{sa} - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_2: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} & \sum_{j_z} S_{j_{ik}, j_{sa}}^{ISO} \left(\sum_{i=1}^{(n+j_{sa}^{ik})} \sum_{j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}}^{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left(\sum_{k=1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=n_{is}+j_{sa}^{ik}-\mathbb{k}_1)}^{(n_i+\mathbb{k}_1+1)} j_{ik}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2 + j_{ik} - 1 + 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} - s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge I = \mathbb{k} > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_{ik} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{lk}-j_{sa})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}^{lk}=j_{sa}+n-D}^{n+j_{sa}-s} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(n_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(j_{sa}+j_{sa}^{lk}-j_{sa}-1)} \sum_{(j_{ik}=l_{ik}+n-D)}^{n+j_{sa}-s} \sum_{j_{sa}^{lk}=l_{sa}+n-D} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{\sum_{i=1}^n (j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{l_i = n + j_{sa} - D - s}^{n - j_{sa} - s}$$

$$\sum_{l_i = n + l_k}^{(n_i - j_s)} \sum_{(n_i - l_k + l_k + j_{sa}^{ik} - j_{ik})}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - l_{k_1}}^{j_{sa}^{ik} - l_{k_1}} \sum_{(n_{ik} = n_{ik} + j_{ik} - j^{sa} - l_{k_2})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l_{k_1} - l_{k_2})!}{(n - n - l_{k_1} - l_{k_2})!}.$$

$$\frac{1}{(n + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$(l_{ik} - j_{sa}^{ik} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \bigg) \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{\sum_{n_i=n+k}^n} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D)}^{(n+j_{sa}^{ik}-s)} j_{sa}^{sa=j_{ik}+j_{sa}-k} \right. \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{sa}^{sa})! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{\sum_{n_i=n+k}^n} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\ \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ \left. \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \right)$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n_{sa} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \frac{(n+j_{sa}-s)!}{(j_{ik}=l_i+n+j_{sa}^{ik}-j_{sa}) j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1} \sum_{j_{sa}^{ik}=1}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{n_i-j_{ik}-\mathbb{k}_1+1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}^{ik}=1}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_{sa}+s-l_i-j_{sa}^{ik}-l_i-j_{sa}-j_{sa}^{ik}-s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{ik} + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{ik}\} \wedge$$

$$s \geq 5, s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{\text{ISO}} &= \sum_{k=1}^{(j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{n+j_{sa}-s} \sum_{j_{sa}=l_i+n+j_{sa}-D-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik})!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{sa} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (j_{sa} - j^{sa})!} \cdot \\
& \sum_{\substack{k=0 \\ (j_{ik}=j^{sa}-l_{ik}-j_{sa})}}^{\binom{n+j_{sa}-s}{D-s}} \sum_{\substack{l=0 \\ (n_i-j_s+1) \\ =n+\mathbb{k} \\ (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}}^{\binom{n+j_{sa}-s}{D-s}} \sum_{\substack{k=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1 \\ (n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}}^{\binom{n+j_{sa}-s}{D-s}} \\
& \frac{(n_i + j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_i + n + j_{sa}^{ik} - D - s}^{n + j_{sa} - s} \frac{(n + j_{sa} - s)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{ik} - j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \frac{(n + j_{sa} - s)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{ik} - j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} +$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \sum_{(j_{sa}^{ik}=j_{sa}^{ik}-j_{sa}^{ik}+j_{sa}^{ik})}$$

$$\sum_{n_{ls}=l_i+\mathbf{n}+\mathbb{k}_1}^{(j_{sa}^{ik}-j_{sa}^{ik}+j_{sa}^{ik})} \sum_{n_{ls}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}} (n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})$$

$$\sum_{n_{ls}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(l_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D > \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{sa}^{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=l_s+n+j_{sa}-D-s}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n+j_{sa}+1}^{n_i-j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(j_{sa}-j_{ik}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-j_{sa})!} \cdot \frac{(n_{sa}-n_{sa}-1)!}{(n_{sa}-n_{sa}-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{sa}+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$fz S_{j_{ik}, j}^{l_i} = \sum_{k=1}^{(n+j_{sa}^i-s)} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\begin{aligned}
& \sum_{k=1}^{\binom{n+j_{sa}^{ik}-s}{j_{ik}=l_i+n+j_{sa}^{ik}-D-s}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\binom{n+j_{sa}^{ik}-s}{j_{ik}=l_i+n+j_{sa}^{ik}-D-s}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}}^{\binom{n_i-j_s+1}{n_{is}=n+\mathbb{k}+j_{sa}^{ik}}} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\binom{n_i-j_s+1}{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}} \sum_{n_{sa}=n_{ik}+j_{ik}+j_{sa}-\mathbb{k}_2}^{\binom{n_i-j_s+1}{n_{sa}=n_{ik}+j_{ik}+j_{sa}-\mathbb{k}_2}} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 + \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - 1)!} \cdot \\
& \frac{1}{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 + \mathbb{k}_2)!} \cdot \\
& \frac{(n_i - n - \mathbb{k}_1 - 1)!}{(l_s + j_{sa}^s - j_{ik} - s - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(j_{sa}^s + s - n - l_i - j_{sa}^{ik} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n - 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D - n < n \wedge I = 0 > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2, \dots, \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{\binom{n+j_{sa}-s}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{\binom{n+j_{sa}-s}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{\binom{n+j_{sa}-s}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - s)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_{sa} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-s)}^{(n+j_{sa}^{ik}-s)} j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\ & \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{j_{sa}=1}^{(n_i-j_{ik}-k_1+1)} \\ & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - n_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} - \\ & \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)} \\ & \sum_{n_i=n+k}^n \sum_{(n_{is}=n+k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^i-j_{sa}^{ik}-k_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2)}^{()} \end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \big) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s = \mathbb{k} > \mathbf{n} \wedge$$

$$j_{sa}^{ik} = \mathbb{k} - 1 \wedge j_{sa} - j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, l_{sa} - j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$l_{sa} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{\text{iso}} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - s)!}{(l_{sa} - j^{sa} - n - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{n+j_{sa}-s} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n_{is}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\cdot)} \sum_{(n_{is}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)}^{(\cdot)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n_{is} - j_{sa}^{ik} - j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - j_{ik} - s - 2 \cdot j_{sa})!}{(l_s - 2)!} \cdot \\
& \frac{(j_{ik} + j_{sa} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + j^{sa} + j_{sa} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee
\end{aligned}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \bigg) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik}, j^{sa}}^{\text{iso}} = & \sum_{k=1} \sum_{\binom{()}{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{j^{sa}=\mathbf{l}_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{\mathbf{n}+j_{sa}-s} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-1} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} - 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(j_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} + j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
 & \sum_{k=1} \sum_{\binom{()}{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{\binom{()}{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}} \\
 & \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
 & \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
 & \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

$$\begin{aligned} n_{ik, j^{sa}} &= \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{ik}+n-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \end{aligned}$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(\mathbf{n} + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_i + \mathbf{n} + j_{sa}^{ik} - D - s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{is} = n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} + j_{sa}^{ik} - j_{sa} - s - 1)!} \cdot$$

$$\frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - j_{ik} - s - 2 \cdot j_{sa})!}{(l_s - 2)!} \cdot$$

$$\frac{(j_{ik} + j_{sa} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + j^{sa} + j_{sa} - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \bigg) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
 f_z S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1}^n \sum_{(j_{ik}=l_{ik}+n-D)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
 &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \\
 &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik})! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
 &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} + j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 &\frac{(n_{ik} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
 &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
 &\sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
 &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
 &\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
 &\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
 \end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \in \mathbb{Z} \wedge \mathbb{k} = \mathbb{k}_1 \vee \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} j_{ik,j^{sa}}^{ISO} &= \sum_{k=1}^{(l_i + \mathbf{n} + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = l_{ik} + \mathbf{n} - D)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s} \\ &\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)} \\
& \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{ik}=n+j_{sa}^{ik}-j_{ik}-\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1)!}{(j_{ik} - \mathbb{k}_1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{sa} - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik}-s)} \\
& \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{ik}=n+j_{sa}^{ik}-j_{ik}-\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - j_{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \big) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s = \mathbb{k} > \mathbf{n} \wedge$$

$$j_{sa}^{ik} = \mathbb{k} - 1 \wedge j_{sa} - j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, l_{sa} - j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$j_{sa}^{ik} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_{ik} + \mathbf{n} - D)}^{n + j_{sa} - s} \sum_{j^{sa} = l_{sa} + \mathbf{n} - D}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot \\
& \frac{(\mathbf{n} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik}^{ik} - j_{sa}^{ik} - j_{sa})}^{(j_{ik}^{ik} - j_{sa}^{ik} - j_{sa})} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa})$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$fz \cup j_{sa}^{ik} = \sum_{k=1}^{(j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = \mathbf{l}_s + \mathbf{n} + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} \sum_{j_{sa} = \mathbf{l}_{sa} + \mathbf{n} - D}^{n + j_{sa} - s}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j_{sa} - \mathbf{l}_{ik})! \cdot (j_{sa}^{ik} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} -$$

$$\sum_{k=1}^{\infty} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(j_{sa}-s)} j_{sa}^{sa} = l_i + n + j_{sa} - D - s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(j_{sa}-s)} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(j_{sa}-s)}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa} + s - n - l_i - j_{sa} - s)! \cdot (n + j_{sa} - j_{sa}^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D < n < n \wedge l_s > n - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa})) \wedge$$

$$(D \geq n < n \wedge l_s > n - n + 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{n+j_{sa}^{ik}-s} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}-j_{ik})}^{(n_i+\mathbb{k}+1)}$$

$$\frac{(n_i + 2 \cdot j_{sa}^{ik} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{1}{(n + 2 \cdot j_{sa}^{ik} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j_{sa}^{ik} - s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa})$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_2: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$fz^{S_{j_{ik}^{sa}}} = \sum_{k=1}^{\mathbb{K}} \sum_{(j_{ik}=\mathbf{l}_{ik}+\mathbf{n}-D)}^{(\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{\mathbf{n}+j_{sa}-s} \\ \sum_{n_i=\mathbf{n}+\mathbb{K}}^{\mathbf{n}} \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1}^{\sum_{j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}} (n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} + j_{sa})!} \cdot \\
& \frac{(n - j_{sa} - 1)!}{(n_i + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - j_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \cdot \\
& \sum_{k=1}^{\sum_{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}} \binom{()}{j_{sa}}} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{n_{is}} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{\binom{()}{j_{sa}}} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{is} &= \sum_{i=1}^n \sum_{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{j_{sa}=l_{sa}+n-D}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\sum_{i=n+\mathbb{K}}^n \sum_{n_{ik}=n+\mathbb{K}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ &\sum_{k=1}^n \sum_{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}^{(n)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \\
& \frac{1}{(n+2 \cdot j_{sa}^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \cdot \frac{(j_{ik}-j_{sa}^{ik}-1)!}{(D+l_i)!} \\
& \frac{(D+j_{sa}^{sa}+s-1+l_i-j_{sa}^{sa}-j_{sa}^{ik}-j_{sa}^{sa}-s)!}{(D+l_i)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq n + j_{sa}^{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{sa} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - n < l_s \leq D + l_{ik} + j_{sa}^{sa} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n < n + 1 \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{sa} = j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_1 + \mathbb{k}_2 = \mathbb{k} \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{l_i=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik})}^{(n+j_{sa}^{ik}-s)} \\
& \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \sum_{(n_{is}=n_{ik}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1)}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + j_{sa}^{ik} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{l_{ik}+j_{sa}-j_{sa}^{ik}}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ & \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j_{sa}=j_{sa}+2}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \left. \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \right) \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1, \dots, l_{ik}+j_{sa}^{ik}+1)}^{(l_{ik})} \Delta_{(j_{ik}=j_{sa}^{ik}+1, \dots, l_{ik}+j_{sa}^{ik}+1)} \\
& \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_i-j_{ik}+1, \dots, n_{ik}+j_{ik}-\mathbb{k}_2)}^{(n_i-j_{ik}+1)} \sum_{(n_{ik}=n-j^{sa}+1)}^{(n_{ik}+j_{ik}-\mathbb{k}_2)} \\
& \frac{(n_{ik}-j_{ik}-1)!}{(j_{ik}-2)! \cdot (n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\
& \frac{(n_{ik}-j_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa})!} \cdot \\
& \frac{(n_{sa}-1)!}{(j^{sa}-n-1)! \cdot (n-j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_{is}=n+\mathbb{k}_1+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(\mathbf{l}_s - 2)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\}$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z^{ISO} j_{ik}, j^{sa} &= \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ &\quad \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\quad \left. \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \right). \end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) + \\
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}+j_{sa}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{sa} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - j_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (j^{sa})!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = j_{sa} + 1} \\ &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j^{sa} = l_s + j_{sa}}^{l_{sa}} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa}} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} + j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{(\quad)} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{(\quad)} \sum_{j^{sa} = j_{sa} + 1}^{l_s + j_{sa} - 1} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{(\quad)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_{j_{sa}^{ik}, j_{sa}^{ik}}^{iso} = \left(\sum_{k=1}^{()} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}^{ik}-j_{sa}}^{()} \sum_{j_{sa}=j_{sa}^{ik}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right)$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{n_{ik}=n+\mathbb{K}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) +$$

$$\begin{aligned}
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} l_{ik+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{l_{ik}+j_{sa}-j_{ik}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{l_{ik}+j_{sa}-j_{ik}} \frac{(n_i + 2 \cdot j_{sa}^{ik} + 2 \cdot j_{ik} - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \frac{1}{(n + 2 \cdot j_{sa}^{ik} + 2 \cdot j_{ik} - 2 \cdot j_{sa} - s - 2 \cdot j_{sa})!} \cdot \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j_{sa}^{ik} - s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_s = D - n \wedge$$

$$j_{sa}^{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{ik} \leq j^{sa} \leq j_{sa} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - j_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge$$

$$D \geq n - l \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \right. \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\ \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=j_{sa}+2}^{l_s+j_{sa}-1} \right. \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \right)$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j^{sa} = l_s + j_{sa}}^{l_{sa}} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa}} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} + j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j^{sa} = j_{sa} + 1}^{l_s + j_{sa} - 1} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} & \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+j_{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_i - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - j^{sa} - s)!}{(D + j_{sa} - n - j^{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_{ik}-k+1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}}^{\mathbb{K}} &= \left(\sum_{k=1}^{j_{sa}^{ik} + j_{sa}^{ik} - 1} \sum_{\mathbb{K} = j_{sa}^{ik} + 1}^{j_{sa}^{ik} + j_{sa}^{ik} - 1} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \right. \\ &\quad \sum_{i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\quad \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\quad \left. \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \right. \\ &\quad \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{l_{sa}} \right. \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n - j^{sa} - n_{sa} - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{sa}^{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(n_i + j_{ik} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{l_{sa}} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_{z,j_{sa}}^{j_{sa}^{ik}} &= \sum_{k=1}^{j_{sa}^{ik}-1} \sum_{l_{ik}=j_{sa}^{ik}+1}^{j_{sa}^{ik}-1} \sum_{l_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}} \\ &\sum_{i=\mathbf{n}+\mathbb{K}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{sa}^{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(n_{is} - j_s + 1)} \sum_{(n_{sa} = n_{ik} + j_{sa}^{ik} - j_{sa} - \mathbb{k}_2)}^{(n_{is} - j_s + 1)} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{(n_i - j_s - 2)!}{(l_s + j_{sa} - j_{ik} - s - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n_i)!}{(n_i + j_{sa} + s - n - l_i - j_{sa}^{ik} - 1)! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_s - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n \wedge n \wedge I = \mathbb{k} > 0) \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{ik} - j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \dots, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^{(l_s + j_{sa} - k)} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})}^{(n_i - j_s + 1)} \sum_{j_{sa} = l_{sa} + n - D}^{l_s + j_{sa} - 1} \right)$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{=j_{sa}^{ik}+1}^{l_s+j_{sa}-1} \sum_{j^{sa}=l_{sa}+n-D} \right) \\
& \sum_{=n+\mathbb{k}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=n-j^{sa}+1} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_s + j_{sa}} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa}}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\
& \frac{(n - n_{sa} - 1)!}{(n_i + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - n - j_{sa})!}{(D + j_{sa} - n - j_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik} = j_{sa}^{ik} + j_{sa}^{ik} - j_{sa})}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = l_i + n + j_{sa} - D - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} &= \left(\sum_{k=1}^{(l_s + j_{sa} - 1)} \sum_{j_{ik} = j_{sa} - D - j_{sa}}^{(l_s + j_{sa} - 1)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \right. \\ &\quad \left. \sum_{i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \right. \\ &\quad \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\quad \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\quad \left. \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left(\sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} (n_i + \mathbf{n} + \mathbb{k}_1 - j_{ik})^{(n_i + \mathbf{n} + \mathbb{k}_1 + 1)} \sum_{n_{ik}=n_i+j_{sa}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i + \mathbf{n} + \mathbb{k}_1 + 1)} \frac{(n_i + 2 \cdot j_{sa}^{ik} + 2 \cdot j_{ik} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \frac{1}{(n + j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j_{sa}^{ik} - s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{n} > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - j_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} \leq l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik}) \vee$$

$$(\mathbf{n} < n \wedge l_s \geq 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \Big) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{\left(\begin{smallmatrix} \mathbf{l}_{ik} + j_{sa} - j_{sa}^{ik} \\ j_{ik} = j_{sa} + j_{sa} - j_{sa} \end{smallmatrix} \right)} \sum_{j_{sa} = \mathbf{l}_{sa} + \dots}^{\left(\begin{smallmatrix} \mathbf{l}_{ik} + j_{sa} - j_{sa}^{ik} \\ j_{sa} = \mathbf{l}_{sa} + \dots \end{smallmatrix} \right)} \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{(n_i - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \Big) + \left(\sum_{k=1}^{\left(\begin{smallmatrix} j_{sa} + j_{sa}^{ik} - j_{sa} - 1 \\ j_{ik} = j_{sa}^{ik} + 1 \end{smallmatrix} \right)} \sum_{j_{sa} = \mathbf{l}_{sa} + \mathbf{n} - D}^{\mathbf{l}_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \right.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{n+j_{sa}-s} \sum_{j_{sa}=j_{sa}^{ik}+1}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_{sa}-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1-1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{()} \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \\
& \frac{(l_s-2)!}{(l_s+j_{ik}-j_{sa}-1)! \cdot (j_{ik}-j_{sa}-1)!} \\
& \frac{(l_s+l_i)!}{(D+j_{sa}+s-l_i-j_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1) \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \\
& D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee \\
& ((D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1) \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \\
& D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik})) \wedge
\end{aligned}$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^s - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{iso} = & \left(\sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left. \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{lk}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n+j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - \mathbb{k}_1 - 1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{sa} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} + j_{sa} - n - 1)!}{(j^{sa} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - 1)! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{lk}-D-s)}^{(l_s+j_{sa}^{lk}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{lk}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1))$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_s^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge \mathbf{s} = s \wedge \mathbb{k} \wedge$$

$$\mathbb{k}_z = 2 \wedge \mathbb{k} = \mathbb{k}_1 \vee \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j^{sa}}^{\text{ISO}} &= \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}. \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{l_{ik}+j_{sa}} \sum_{j_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{ik}+j_{sa}} \cdot \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{n_{ik}-j_{sa}^{ik}-\mathbb{k}_2} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(n_{sa} - j_{ik})! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{()} \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \cdot \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \cdot
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - 1)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
& D + s - \mathbf{n} < l_i \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge \\
& (D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
& D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge \\
& (D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 1) \wedge \\
& j_{sa}^{s-1} < j_{sa}^{ik} - 1 \wedge j_{sa}^{s-1} < j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge \\
& \mathbf{s}: \{j_{sa}^s, \dots, l_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge \\
& l_{sa}^{ik} = s + \mathbb{k} \wedge \\
& \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow
\end{aligned}$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(l_i + \mathbf{n} + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik}+j_{sa}^{ik}-j_{sa}-D-s)}^{(l_{ik}+j_{sa}^{ik}-j_{sa}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} (j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s) \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_i-j_s+1)}^{(n_i-j_s+1)} (n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-s) \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}-\mathbb{k}_2)}^{(n_{sa}=n_{ik}+j_{sa}-\mathbb{k}_2)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-s)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-j_{sa}-j_{ik}-1) \cdot (j_{ik}-j_{sa}^{ik}-1)!}{(l_s+j_{sa}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-j_i)!}{(D+j^{sa}+s-\mathbf{n}-l_i-j_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s < D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} < D + l_s - j_{sa} < \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^i - \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_2: 2 - 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{\text{iso}} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=l_s+j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{l_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-1)!} \cdot \\
& \frac{1}{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-2)!} \cdot \\
& \frac{(n_i-n-\mathbb{k}_1-2)!}{(l_s+j_{sa}-j_{ik}-s-1) \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-l_i)!}{(n_i+j^{sa}+j_{sa}^{ik}-n-l_i-j_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s = D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s \leq n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \dots, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s+j_{sa}-1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)} j_{sa}=\mathbf{j}_{ik}+j_{sa}-j_{sa}^{ik}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=\mathbf{n}_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa}^{ik})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s < D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq \mathbf{n} + j_{sa} - s$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^i, \dots, j_{sa}^{ik}, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_2: 2 - 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f^Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik})!}{(l_{sa} - j_{sa}^{ik} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}_1} \sum_{(j_{sa}+j_{sa}^{ik}-j_{sa})}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j_{sa}^{sa}=\mathbf{j}_{sa}+1}^{j_{sa}^{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=\mathbf{n}_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + \mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < \mathbf{n} \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik})}^{(\quad)} \sum_{j_{sa}=j_{sa}+1}^{j_{sa}^{ik}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}_2+j_{sa}^{ik}-j_{ik})}^{(n_{is}=n+\mathbb{k}_2+j_{sa}^{ik}-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n-j_{sa}^{ik}-\mathbb{k}_2} \\ & \frac{(n_{ik}-n_{ik}-\mathbb{k}_1-1)!}{(n_{ik}-2)! \cdot (n_{ik}-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \frac{(n_{ik}-n_{sa}-1)!}{(n_{ik}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \\ & \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik}-j_{sa}^{ik}-1)!}{(\mathbf{l}_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} - \\ & \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l}_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge$$

$$l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$f_Z S_{j_{ik} j^{sa}}^{iso} = \sum_{k=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{\mathbf{n} + j_{sa} - s} \sum_{j^{sa} = l_{sa} + \mathbf{n} - D}^{\mathbf{n} + j_{sa} - s} \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_{sa}+j_{sa}^{ik}-D-j_{sa})} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}_1}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \\
& \frac{1}{(n+2 \cdot j_{sa}^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \frac{(j_{ik}-j_{sa}^{ik}-1)!}{(j_{ik}-j_{sa}^{ik}-1)!} \\
& \frac{(D+l_i)!}{(D+l_s+s-l_i-j_{sa}^{sa} \cdot (n+j_{sa}-j_{sa}^{sa}-s))!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$$

$$(D \geq n < n \wedge l_s = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{sa} = j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{sa}, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_1 + \mathbb{k}_2 = \mathbb{k} \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\Delta} \sum_{j_{ik}=0}^{l_{ik}+n-l_{sa}-j_{sa}^{ik}} \sum_{j_{sa}=0}^{(l_s+j_{sa}^{ik}-1)} \sum_{j_{sa}^{ik}=0}^{(n_i-j_s+1)} \sum_{n_{is}=\mathbf{n}+\mathbb{k}}^{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_1)} \sum_{j_{sa}^{ik}=0}^{(n_{sa}-j_{sa}^{ik}-1)} \\
& \frac{(n_i + j_{sa}^{ik} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1}^{\binom{n}{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \frac{(n-j_{ik}+1) \cdot n_{ik}+j_{ik}-\mathbb{k}_2}{n_i=n+\mathbb{k}_1 \cdot (n_{is}=n+\mathbb{k}_1+j_{sa}^{ik}-j_{ik})} \cdot \frac{(n_{ik}+j_{ik}-n_{sa}-1)!}{(j_{ik}-2)! \cdot (n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \sum_{k=1}^{\binom{n}{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1} \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_{is}=n+\mathbb{k}_1+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\binom{n}{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}}} \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

$$\begin{aligned} & f z^{\mathbb{K}_2} j_{ik}^{s-2} \sum_{k=1}^{\mathbb{K}_2} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(\cdot)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)}^{(\cdot)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n + j_{sa}^{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - j_{ik} - s - 2 \cdot j_{sa})!}{(l_s - 2)!} \cdot \\
& \frac{(n + j_{sa}^{ik} - j_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + j^{sa} + j_{sa} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq 1 \wedge l_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - j_{sa}^{ik} -$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - n \leq l_{ik} \leq D - l_s + j_{sa}^{ik} - n - 1 \wedge$$

$$(D + j_{sa}^{ik} - n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s_{sa} \in \{j_{sa}^i, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{iso} = & \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z^{ISO} S_{j_{ik}, j_{sa}}^{j_{sa}^{ik}} = \sum_{k=1}^{(j_{sa}^{ik} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = \mathbf{l}_{ik} + \mathbf{n} - D)}^{(j_{sa}^{ik} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{ik} = \mathbf{l}_{ik} + \mathbf{n} + j_{sa} - D - s}^{(j_{sa}^{ik} + j_{sa}^{ik} - j_{sa})} \frac{(n_i - j_{ik} - \mathbb{K}_1 + 1)!}{(n_i - n_{ik} - \mathbb{K}_1 - 1)!} \cdot \frac{(n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2)!}{(n_{sa} = \mathbf{n} - j_{sa} + 1)!} \cdot \frac{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{ik})!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa}^{ik})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j_{sa} - \mathbf{l}_{ik})! \cdot (j_{sa}^{ik} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = \mathbf{l}_{ik} + \mathbf{n} - D)}^{(l_{ik})} \sum_{j_{sa}^{ik} = \mathbf{l}_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{\mathbf{n} + j_{sa} - s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa} - j_{sa}^{ik})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot \\
& \frac{(n + j_{sa} - \mathbf{n} - s)!}{(n + j^{sa} - \mathbf{n} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik}^{ik} - j_{sa}^{ik} - j_{sa})}^{(j_{ik}^{ik} - j_{sa}^{ik} - j_{sa})} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{sa}}^{ISO} = \sum_{k=1}^{(l_i+n-j_{sa}^{ik}-D-s)} \sum_{j_{sa}=l_{ik}+n-j_{sa}^{ik}-D-s}^{(l_i+n-j_{sa}^{ik}-D-s)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{(n_{ik}-\mathbb{k}_1+1, n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{(n_{ik}-\mathbb{k}_1+1, n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)} \frac{(l_i+n-j_{sa}^{ik}-D-s)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(j_{ik}+l_{sa}-j_{sa}-l_{ik})! \cdot (j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} + \sum_{k=1}^{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{sa}^{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot \\
& \frac{(n_i + j_{sa} - \mathbf{n} - s)!}{(n_i + j^{sa} - \mathbf{n} - s)! \cdot (n_i + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s+j_{sa}-1)} \sum_{(j_{ik}=\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}-1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_2: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$f_z S_{j^{sa}} = \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \\ \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa} - j_{sa}^{ik} - j_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s < j - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq n + j_{sa} - s$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq n + l_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > -1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa}^{ik}, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_2: 2 - 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - s)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_{sa} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} j_{sa}^{iso} = & \sum_{k=1}^{\mathbf{l}_{ik}} \sum_{j_{ik}=j_{sa}^{ik}+1}^{\mathbf{l}_{ik}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{i=\mathbf{n}+\mathbb{K}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1}^{j_{ik}-\mathbb{K}_1+1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ & \sum_{k=1}^{\mathbf{l}_s + j_{sa}^{ik} - k} \sum_{j_{ik}=j_{sa}^{ik}+1}^{\mathbf{l}_{ik}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!(j_{ik}-j_{sa}^{ik}-1)!} \\
& \frac{(D+l_i)!}{(D+l_{sa}+s-n+l_i-j_{sa}^{sa} \cdot (n+j_{sa}-j_{sa}^{sa}-s))!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n + 1 \wedge$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{sa} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{sa}, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}^s, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \leq n - s \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{\text{ISO}} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=l_i}^{j_{sa}^{ik}-D+l_i} \sum_{j_{sa}^{ik}=D+l_i}^{j_{sa}^{ik}-j_{sa}^{ik}} \sum_{j_{sa}^{ik}=j_{sa}^{ik}}^{(n_i-j_s+1)} \sum_{j_{sa}^{ik}=n+\mathbb{k}}^{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})} \sum_{j_{sa}^{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} - j_{sa} + j_{sa} - j_{sa}^{ik})} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(\mathbb{k}_1 = j_{ik} + 1)}^{(n_i - j_{ik} + 1)} \sum_{(\mathbb{k}_2 = n - j_{sa} + 1)}^{(n_{ik} + j_{ik} - \mathbb{k}_2)} \\ & \frac{(n_i - j_{ik} + 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{sa} - j_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \cdot \\ & \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^k \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\ & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(\quad)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{(\quad)} \\ & \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \end{aligned}$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa})!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

$$j_{ik}, j^{sa} = \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + k}^n \sum_{(n_{is} = n + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - k_1}^{(n_i - j_s + 1)} \sum_{(n_{is} = n_{ik} + j_{sa}^{ik} - j_{ik} - k_2)}^{(n_i - j_s + 1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - j_{ik} - s - 2 \cdot j_{sa} - k_1 - k_2)!}{(n_i - n_{is} - k_1 - k_2)!} \cdot \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - j_{ik} - s - 2 \cdot j_{sa})!}{(l_s - 2)!} \cdot \\
& \frac{(n + j_{sa} - j^{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + j^{sa} + j_{sa} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_s \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$\begin{aligned} f_{j_{ik}, j^{sa}}^{ISO} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{sa} + 1} \mathbf{l}_{ik} + j_{sa} - j_{sa}^{ik} \\ &\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_{ik}+j_{sa}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{sa} - n_{sa}^{ik} - 1)!}{(j^{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} .
\end{aligned}$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa})!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D > n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}+\mathbb{k}_2}^{(n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)} \frac{(n_{ik}-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \frac{(n_{ik}-n_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa})!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(l_{sa}+j_{sa}-j_{sa}^{ik}-l_{ik})! \cdot (j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} -$$

$$\sum_{k=1}^{(l_s+j_{sa}^{ik}-k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa})}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{i-1}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$(z = s + \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} (j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa}) \sum_{(l_{ik})} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j_{sa}^{ik} - 1)! \cdot (n - j^{sa} - s)!} \cdot \\
& \sum_{j_{ik}=1}^{l_s+j_{sa}^{ik}-1} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_s+j_{sa}^{ik}-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{ik} \leq D + \mathbf{l}_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_s \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$\begin{aligned} f_z S_{j_{ik}}^{iso} &= \sum_{k=1}^{\quad} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{\quad} \sum_{j^{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{\mathbf{n}+j_{sa}-s} \\ &\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_s+j_{sa}-1)} j^{sa} = l_{sa} + n - D$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{is}-j_s+1)} (n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - l_i)!}.$$

$$\frac{(D + j^{sa} + s - n - l_i - j_{sa} - j_{sa}^{ik} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!}{(D - l_i)!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_i \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} - n - j_{sa}^{ik} \wedge$$

$$D + s - n < l_i \leq D + l_i + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_i \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_i \leq D - n + 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j_{sa} = l_{sa} + n - 1}^{n} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} - \mathbb{k}_2}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_s + j_{sa}}^{n} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \end{aligned}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{\sum_{i=1}^n (l_{ik} - j_{sa}^{ik})} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}+n+j_{sa}-D-s)}$$

$$\sum_{i=n+\mathbb{k}}^{(n_i-j_s)} \sum_{(n_{i_s}+l_{i_s}+j_{sa}^{ik}-j_{ik})}$$

$$\sum_{n_{ik}=n_{i_s}+j_{sa}^{ik}-\mathbb{k}_1}^{(n_{i_s}+l_{i_s}+j_{sa}^{ik}-j_{ik})} \sum_{(n_{i_s}+l_{i_s}+j_{sa}^{ik}-j_{ik})}^{(n_{i_s}+l_{i_s}+j_{sa}^{ik}-j_{ik})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - (\mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}^{sa}}^{iso} = & \sum_{i=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{j_{ik} = j_{sa}^{ik} + 1}^{n + j_{sa} - s} \sum_{j_{sa} = \mathbf{n} - D}^{n + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = n_{sa} - j_{ik} + 1)}^{(n_i - j_{ik} - 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} + \mathbf{l}_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j_{sa} - \mathbf{l}_{ik})! \cdot (j_{sa}^{ik} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{ik} = \mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa}}^{n + j_{sa} - s} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - j_{sa}^{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} + j_{sa}^{ik} - j_{sa}^{ik})!} \cdot \\
& \frac{(n_i + j_{sa} - \mathbf{n} - s)!}{(n_i + j^{sa} - \mathbf{n} - s)! \cdot (n_i + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}_1} \sum_{(j_{ik}+j_{sa}^{ik}-j_{sa}^{ik}-D-s)}^{(l_i+j_{sa}^{ik}-j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{sa} - j_{sa} + 1 > \mathbf{l}_s \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 1) \wedge$$

$$j_{sa} - j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$j_{sa}^{ik} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = \mathbf{l}_{ik} + \mathbf{n} - D)} \sum_{j_{sa} = \mathbf{l}_{sa} + \mathbf{n} - D} \mathbf{l}_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=0}^D \sum_{j_{ik}=n-D}^{(n_{ik}+n-D)} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_s+j_{sa}-1)} j^{sa} = l_i + n + j_{sa} - D - s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} (n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - l_i)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa}^{ik} + 1 > l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_{z=2}^{SO_{sa}} = \sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{l_{ik}=l_{ik}+n-D}^{n+j_{sa}-s} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \\ \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \\ \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\
& \frac{(n_i + j_{sa} - \mathbf{n} - 1)!}{(n_i + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa}^{ik})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - l_{sa} - s)! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s)!} - \\
& \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j}^{ls} &= \left(\sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\ &\quad \sum_{n_i=\mathbb{k}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{ik}=\mathbb{k}_2-j_{ik}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=n-j^{sa}+1} \\ &\quad \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\quad \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \right) + \\ &\quad \left(\sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \right. \\ &\quad \sum_{n_i=\mathbb{k}}^n \sum_{n_{ik}=\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \end{aligned}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - n - l_{sa})! \cdot (D + j_{sa} - j^{sa} - 1)!} \cdot$$

$$\sum_{k=1}^n \sum_{j_{sa}=j_{sa}}^{()}$$

$$\sum_{n_{ik}=n_i-\mathbb{k}_1}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 - j_{sa}^{ik} - j_{ik} - s - 1)! \cdot (j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n - 2 \cdot j_{sa}^{ik} - j_{sa} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n, l_s = 1, l_i \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} + j_{sa} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 \geq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} - n \wedge l_i \leq D + s - n \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}^{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \frac{(n_{sa} - j_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j^{sa} - 1)!} \cdot \frac{(D - j_{sa} - l_{sa} - s)!}{(D - j^{sa} - n - l_{sa} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_{sa}^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i - n - 2 \cdot j^{sa} - 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D - n - 1 \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+j_{sa}-\mathbb{k}_2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}+j_{ik}-j_{sa}+1}^{n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j_{sa})!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j_{sa})!} \cdot \\ & \frac{(n_{sa} - j_{sa} - \mathbf{n} - 1)!}{(n_{sa} - j_{sa} - \mathbf{n} - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} - \\ & \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j_{sa}=j_{sa}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(\quad)} \\ & \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ & \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k_1, j_{sa}^{ik}, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$\begin{aligned} f_{zS}^{iso}_{j_{ik}, j_{sa}} &= \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} j_{sa}^{sa=j_{ik}+j_{sa}^{ik}} \\ &\sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2}^{(n_{ik}+j_{ik}-j_{sa}-k_2)} j_{sa}^{sa+1} \\ &\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \cdot \\ &\sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^{sa=j_{sa}}} \\ &\sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2} \\ &\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ &\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{sa} - j_{sa} + 1 > \mathbf{l}_s \wedge$$

$$\mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^i - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\mathbf{l}_{ik})} \sum_{j_{sa}^{sa}=j_{sa}}^{\mathbf{l}_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_i-j_{sa}-\mathbb{k}_2}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{(D + s - n - l_i)!}{(n - s)!}$$

$$((D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n)$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} + j_{sa}^{ik} - j_{sa} - n \wedge l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{s-1} = j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^{s-1} + 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{jik, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(n_i + j^{sa} - n_{sa} - 1)! \cdot (n - j^{sa} - \mathbb{k}_1)!} \cdot$$

$$\frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i + j_{ik} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (n - s)!}$$

$$l_s \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}-j_{sa}^i)} \sum_{j_{sa}=j_{sa}^{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \\ \frac{(n_{sa} - 1)!}{(j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \right) + \\ \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}+1}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1) l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{sa})} \sum_{(n_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa})}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_1-j_{ik}+1)}^{(n_{ik}=j_{ik}+1)} \sum_{(n_{sa}=\mathbf{n}-j^{sa}+1)}^{(n_{sa}=l_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} & S_{j_{ik}, j_{sa}}^{l_{sa}} = \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot \\
& \frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - j^{sa} - s)!}{(D + j_{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j^{sa}=j_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}
\end{aligned}$$

$$D - \mathbf{n} \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}}^{(\quad)} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} j_{sa}^{sa+1} \cdot \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa})!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} - \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}}^{(\quad)} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(\quad)} \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$((D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s > 5 \wedge \mathbf{s} = \dots + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \dots + \mathbb{K}_2) \wedge$$

$$fz S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j_{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{\binom{n}{n_i}} \sum_{(j_{ik}=j_{sa}^{ik}, j_{sa}=j_{sa})} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_1-1, n_{sa}=n-j_{ik}-j^{sa}-\mathbb{k}_2)} \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 2 \cdot j_{sa}^{ik})!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2) \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)!}{(n + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} > j^{sa}$$

$$(D \geq n < n \wedge j^{sa} - \mathbb{k} > 0)$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} = j_{sa}^i - 1 \wedge j_{sa} = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5, s = s + 1$$

$$\mathbb{k}_z: z = 2, \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{ISO} = \left(\sum_{k=1}^{\binom{n}{n_i}} \sum_{(j_{ik}=j_{sa}^{ik}+j_{sa}^{ik}-j_{sa})} \sum_{n_i=n+\mathbb{k}}^{n+j_{sa}-s} \sum_{(n_{ik}=n+\mathbb{k}_1-1, n_{sa}=n-j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{n_{sa}=n-j^{sa}+1}^{n+j_{sa}-s} \right)$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) + \\
& \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - s)} \sum_{(j_{ik}=l_{sa} + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{n_D = \mathbf{n} - D}^{n + j_{sa} - s} \right. \\
& \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_2 - 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j^{sa}=l_i + \mathbf{n} + j_{sa} - D - s}^{n + j_{sa} - s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_{sa}+s-l_i-j_{sa}^{ik}-j_{ik}-1) \cdot (n+j_{sa}-j_{sa}^{ik}-s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{ik}\} \wedge$$

$$s \geq 5, s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j_{sa}}^{ISO} = & \left(\sum_{k=1}^n \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\left(\sum_{k=1}^n \sum_{(j_{ik}=l_s+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-s)}^{(l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-s)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-j_{ik}+1}^{j^{sa}=l_{sa}+\mathbf{n}-j_{ik}} \right)$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}_1}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)}$$

$$\frac{(n_i - \mathbb{K}_1 - 1)!}{(j_{ik} - \mathbb{K}_1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}_1}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j^{sa} - l_{sa} - 1)!}{(D + j^{sa} - n - 1)! \cdot (n + j^{sa} - n_{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik})} \sum_{(j_{ik}=l_i, j_{sa}^{ik}=D-s)}^{(n+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik})} \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{is}=n+\mathbb{K}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{K}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{K}_1 - \mathbb{K}_2)!}{(n_i - n - \mathbb{K}_1 - \mathbb{K}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_{\mathbf{l}_{ik}, j_{sa}}^{\text{iso}} = \left(\sum_{k=1}^{n+j_{sa}-s} \sum_{(j_{ik}=\mathbf{l}_{ik}+\mathbf{n}-D)}^{n+j_{sa}-s} \sum_{j_{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{n+j_{sa}-s} \right. \\ \sum_{i=\mathbf{n}+\mathbb{k}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{sa}=\mathbf{n}-j^{sa}+1} \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \right. \\ \left. \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{(j_{ik}=\mathbf{l}_{ik}+\mathbf{n}-D)}^{n+j_{sa}-s} \sum_{j_{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{n+j_{sa}-s} \right)$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(n + j^{sa} - n - l_{sa})! \cdot (n + j^{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{\Delta} \sum_{(j_{ik} + j_{sa}^{ik} - j_{sa})}^{(j_{ik} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} & f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{j_{ik}=\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}}^{\mathbf{n}+j_{sa}^{ik}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left(\sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{(j_{ik}=l_{ik}+n-D)}^{n+j_{sa}-s} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} j^{sa} = j_{sa} - j_{sa}^{ik}$$

$$\sum_{n=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=n_{is}+j_{sa}^{ik}-\mathbb{k}_1)}^{(n_i+\mathbb{k}_1+1)} j_{ik}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} - s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = D - \mathbf{n} - 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_{ik} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - j_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} j^{sa} = l_i + n + j_{sa} - D - s \\
& \sum_{n_i = n + k}^n \sum_{(n_{ik} = n + k_2 - j_{ik} + 1)}^{(n_i - j_{ik} - k_1 + 1)} \sum_{n_{sa} = n - j^{sa}}^{n_{ik} + j_{ik} - j^{sa} - k_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot \\
& \frac{(n - n + j^{sa} - n - 1)!}{(n - n + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{n + j_{sa} - s} \\
& \sum_{n_i = n + k}^n \sum_{(n_{is} = n + k + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - k_1}^{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - k_2)}^{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - k_1 - k_2)!}{(n_i - n - k_1 - k_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} & f_Z S_{j_{ik}, j_{sa}}^{\text{ISO}} \sum_{i=1}^{(l_i + j_{sa}^{ik} - D - s - 1)} \sum_{j_{ik}=l_s + \mathbf{n} + j_{sa}^{ik} - D - 1}^{n + j_{sa} - s} \sum_{j_{sa}=l_i + \mathbf{n} + j_{sa} - D - s}^{n + j_{sa} - s} \\ & \sum_{i=\mathbf{n} + \mathbb{k}}^{(n_i - \mathbb{k}_1 + 1)} \sum_{n_{ik}=\mathbf{n} + \mathbb{k}_2 - j_{ik} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \sum_{n_{sa}=\mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{\sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n - n_{sa} - j^{sa} - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - j_{sa}^{ik})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{\sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)}} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}}^{is} = \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=l_s+\mathbf{n}+j_{sa}-D-1}^{n+j_{sa}-s} \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{sa}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_{sa}+s-l_i-j_{sa}^{ik}-j_{ik}-1) \cdot (n+j_{sa}-j_{sa}^{ik}-s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{ik} + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{ik}\} \wedge$$

$$s \geq 5, s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} &= \sum_{k=1} \sum_{(j_{ik}=l_s+n+j_{sa}^{ik}-D-1)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!}
\end{aligned}$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} f_Z \mathcal{S}_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n+j_{sa}+1)}^{(n_{ik}-j_{sa}-\mathbb{k}_2)} \\ & \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_{ik}-n_{ik}-j_{ik}+1)!} \cdot \\ & \frac{(n_{ik}-j_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}-j_{ik}-n_{sa}-\mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa}-j_{sa}-n-1)!}{(n_{sa}-j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ & \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \\ & \sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_{sa}+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()} \\ & \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\ & \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{K} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j_{sa}}^{(n+j_{sa}-s)} = \sum_{k=1}^{(n+j_{sa}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} j_{sa}^{sa=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa}^{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}+j_{sa}-\mathbb{k}_2)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 + \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - 1)!}$$

$$\frac{1}{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 + \mathbb{k}_2)!}$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - \mathbb{k}_1)!}$$

$$\frac{(j_{sa}^{ik} + s - n - l_i - j_{sa}^{ik} - 1)! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}{(D - \mathbb{k}_1)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_{zS}^{ISO}_{j_{ik}, j_{sa}} &= \sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=n-D}^{n+j_{sa}-s} j_{sa}^{s+l_{sa}-D-s} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{ik}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i-n_{sa}-1)!}{(j_{ik}-2)! \cdot (n_{sa}-j_{ik}+1)!} \cdot \\ &\frac{(n_{sa}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ &\frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ &\frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \\ &\sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ &\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()} \\ &\frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\ &\frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \big) \wedge$$

$$(D \geq n < n \wedge I = 1 \wedge 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{ik_1}, j_{sa}^{ik_1}, \dots, j_{sa}^{ik_2}, j_{sa}^{ik_2}, \dots, j_{sa}^{ik_2}\} \wedge$$

$$s \geq 5 \wedge s \leq s + k \wedge$$

$$k_z: z \geq 2 \wedge k_z = k_z - k_z \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ \sum_{n_i=n+k}^n \sum_{(n_i-j_{ik}-k_1+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-k_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{l_i=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{a=j_{sa}^{ik}}^{(n-j_s+1)} \\
& \sum_{=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^n \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(n_i-j_{ik}-1)} \sum_{j_{sa}=l_{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=n-j^{sa}+1}^{n_i-n_{ik}-1} \frac{(n_i-n_{ik}-1)!}{(j_{sa}-j_{sa}^{ik}-1)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{sa}^{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j^{sa}-n-l_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!} - \sum_{k=1}^n \sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}^{(n_i-j_s+1)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\cdot)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - \mathbf{n})!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge (l_i + j_{sa} - s > l_{sa}) \vee \\
& (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge (l_i + j_{sa} - s = l_{sa})) \wedge \\
& (D > \mathbf{n} < n \wedge l_s = D - \mathbf{n} + 1 > 0 \wedge \\
& j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge \\
& \mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge \\
& s > j_{sa}^{ik} \wedge \mathbf{s} = s + \mathbb{k} \wedge \\
& \mathbb{k}_z: z = 2 \wedge \mathbf{s} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow
\end{aligned}$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} &= \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
\end{aligned}$$

$$(D \geq n \wedge l_s > D - n + 1 \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{i,sa}^{iso} = \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j^{sa} = \mathbf{l}_i + \mathbf{n} + j_{sa} - D - s}^{\mathbf{n} + j_{sa} - s} \frac{\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_2 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \sum_{k=1}^{()} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j^{sa} = \mathbf{l}_i + \mathbf{n} + j_{sa} - D - s}^{\mathbf{n} + j_{sa} - s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \cdot \frac{(j_{ik}-j_{sa}^{ik}-1)!}{(j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D+l_i)!}{(D+l_i-s-1)!} \cdot \frac{(n+j_{sa}-j_{sa}^{ik}-s)!}{(n+j_{sa}-j_{sa}^{ik}-s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge
\end{aligned}$$

$$\begin{aligned}
& (D \geq n < n \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge \\
& j_{sa}^{ik} \geq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge
\end{aligned}$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{(j_{ik}=l_{ik}+n-D)}^{n+j_{sa}-s} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(n+j_{sa}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1}^{\sum_{i=1}^n (n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} j_{sa}^{sa=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa}^{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{s}-j_{sa}^{ik}-\mathbb{k}_1}^{\sum_{i=1}^n (n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}+j_{sa}-\mathbb{k}_2)}^{(\cdot)}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 + \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - 1)!}$$

$$\frac{1}{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 + \mathbb{k}_2)!}$$

$$\frac{(l_s + j_{sa} - j_{ik} - s)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - \mathbb{k}_1)!}$$

$$\frac{(j_{sa}^{sa} + s - n - l_i - j_{sa}^{ik})! \cdot (n + j_{sa} - j_{sa}^{sa} - s)!}{(D - \mathbb{k}_1)!}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} = & \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_{ik} + n - D)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{(n_{sa} = n - j_{sa} - \mathbb{k}_2)}^{(n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)} \\ & \frac{(n_i - n_{sa} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} - \\ & \sum_{k=1}^{()} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j_{sa} = l_{sa} + n + j_{sa} - D - s}^{n + j_{sa} - s} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\ & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{()} \\ & \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \end{aligned}$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa})!} \cdot$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa})) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1, j_{sa}^i = j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s - \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}^i - \mathbb{k}_1, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge s = \mathbb{k}_1 + \mathbb{k}_2 \wedge$$

$$\mathbb{k}_2 = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) =$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_s + n + j_{sa}^{ik} - D - 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_{sa} + n - D}^{n + j_{sa} - s}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{(j_{sa}=l_i+\mathbf{n}+j_{sa}-D)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})} \sum_{(n_{is}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(l_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D - l_s) \leq \mathbf{n} \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - \mathbf{n} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik} j_{sa}}^{iso} = \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{(n + j_{sa} - s)} \sum_{(j_{sa} = l_{sa} + n - D)}^{(n + j_{sa} - s)} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - j_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(n + j_{sa}^{ik} - s)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})}^{(n + j_{sa} - s)} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(n + j_{sa} - s)} \sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - l_i - j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}-s)} \sum_{(j_{ik}=l_i, j_{sa}^{ik}=j_{sa}-D-j_{sa}^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1, j_{sa}^s = j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge s = 1 + \mathbb{k} \wedge$$

$$\mathbb{k}_2: \mathbb{k}_2 = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{(j_{ik}=l_{ik}+n-D)}^{n+j_{sa}-s} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})} (n+j_{sa}^{ik}-s)} \sum_{(j_{sa}=j_{ik}+j_{sa}-j_{sa})} (n+j_{sa}^{ik}-s)$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}_2}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{K}_2}^{(j_{ik}-j_{sa}^{ik}-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{ik}-j_{ik}-j_{sa}-\mathbb{K}_2)}$$

$$\frac{(n_i - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{(j_{sa}=l_i+\mathbf{n}+j_{sa}-D-s)}^{(n+j_{sa}-s)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{K}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n - \mathbb{k}_1 - \mathbb{k}_2)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - \mathbb{k}_2)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{sa} - j_{sa} - j_{sa}^{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^i = j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^{s-\mathbb{k}_1}, j_{sa}^{ik}, \dots, \mathbb{k}_2, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + 1 \wedge$$

$$\mathbb{k}_z: z \leq 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{\text{iso}} &= \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{l_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}
\end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^s (n_i + j_{sa}^{ik} - j_{sa}^{ik} - l_{sa} - s)} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{n+l_{sa}-s} \Delta_{(n+l_{sa}-s-j_{sa}^{ik}-l_{sa}-s)}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{n+l_{sa}-s-j_{sa}^{ik}-l_{sa}-s} \sum_{(n_i=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{n+l_{sa}-s-j_{sa}^{ik}-l_{sa}-s}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{n+l_{sa}-s-j_{sa}^{ik}-l_{sa}-s} \sum_{(n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1)}^{n+l_{sa}-s-j_{sa}^{ik}-l_{sa}-s}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(\mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik}, j^{sa}}^{iso} = & \sum_{k=1} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{(l_{ik})} \\
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = j_{sa} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - 1} \\
 & \frac{(n_i - 1)!}{(j_{ik} - 2)! (n_i - n_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
 & \sum_{k=1} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)}^{(n + j_{sa}^{ik} - s)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
 & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
 & \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)} \\
 & \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
 & \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
 & \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_{2, \dots, j^{sa}}^{iso} = & \left(\sum_{k=1}^{(n_i - j_{sa} - \mathbb{k}_1 + 1)} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{sa} = j_{sa} + 1}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \right. \\ & \sum_{n = \mathbb{k}}^{(n_i - j_{sa} - \mathbb{k}_1 + 1)} \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\ & \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j_{sa}^{sa} = j_{sa} + 2}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) -
\end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s - j_{sa} - j_{ik} - \mathbb{k}_1 - \mathbb{k}_2)!}{(l_s + j_{sa} - j_{ik} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} < D + j_{sa} - \mathbf{n}$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq \mathbf{n} + j_{sa} - s$$

$$l_s - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D > \mathbf{n} < n \wedge I = 0) > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik} - \mathbb{k}_2, j_{sa}^{ik}, \dots, j_{sa}^i\} \wedge$$

$$s > 0 \wedge \mathbf{n} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbf{n} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right.$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) + \\
& \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{ik}-j_{sa}^{ik}-1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}} \frac{(n_i - j_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2}{n_{sa} = n - j^{sa} + 1} \right) \\
& \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n_{sa}-j_{ik}+1)}^{(n_{ik}-n_{sa}-\mathbb{K}_2-1)} \sum_{n_{sa}=n-j^{sa}+1}^{(n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{K}_2)} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) - \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{ik}-j_{sa}^{ik}-1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!(j_{sa}-j_{sa}^{ik}-1)!} \\
& \frac{(D+l_i)!}{(D+j_{sa}+s-l_i+l_i-j_{sa}-j_{sa}^{ik}-j_{ik}+1)(n+j_{sa}-j_{sa}^{ik}-s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - 1 \wedge l_i \leq D + s - 1 \wedge$$

$$(D \geq n < n \wedge l_s = \mathbb{k}_1 + 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \leq n - 1 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{l_s+j_{sa}-1} \sum_{j^{sa}=j_{sa}+1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}-j_{sa})}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=l_s+j_{sa}}^{n_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{K}_1}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}^{(n_{ik}+j_{ik}-\mathbf{n}+\mathbb{K}_2-j_{ik}+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{sa}} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D - j^{sa} + s - l_s - l_i - j_{sa}^{ik} \cdot (n + j_{sa} - j^{sa} - s))!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s - \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{\text{iso}} = \left(\sum_{k=1} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{(\quad)} \sum_{j^{sa} = j_{sa} + 1}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \right)$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa}^{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik} + j_{sa}^{ik} - j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}^{ik}+1}^{(j_{ik} + j_{sa}^{ik} - j_{sa}^{ik})} \sum_{n_i=\mathbf{n}+\mathbb{k}_1}^{\mathbf{n}} \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{sa}+j^{sa}-\mathbf{n}-1)} \right)$$

$$\frac{(n_i - j_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}_1}^{\mathbf{n}} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{\binom{D + j^{sa} - l_{sa} - 1}{(D + j^{sa} - \mathbf{n} - 1)! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa} - s)!}}{\sum_{k=1}^{\mathbb{k}_1} \sum_{j_{sa}^{ik} = j^{sa} + j_{sa}^{ik} - j_{sa}}^{\binom{D + j^{sa} - l_{sa} - 1}{(D + j^{sa} - \mathbf{n} - 1)! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa} - s)!}} \sum_{j^{sa} = j_{sa} + 1}^{l_{ik} - j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^{\mathbf{n}} \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{\binom{D + j^{sa} - l_{sa} - 1}{(D + j^{sa} - \mathbf{n} - 1)! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa} - s)!}} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{\binom{D + j^{sa} - l_{sa} - 1}{(D + j^{sa} - \mathbf{n} - 1)! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa} - s)!}} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa} = j_{sa} + 1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \right. \\ \left. \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{(n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)} \right. \\ \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_i - \mathbb{k}_2 - 1)!}{(j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j_{sa} = j_{sa} + 2}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \right. \\ \left. \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{(n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)} \right. \\ \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_i - \mathbb{k}_2 - 1)!}{(j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) +$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{i=1}^{(l_s + j_{sa} - 1)} \sum_{j_{ik}=j_{sa}^{ik}}^{l_{sa}} \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1}^{n_i-j_{ik}-\mathbb{K}_2-1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-\mathbf{l}_i)!}{(D-j_{sa}+s-\mathbf{l}_i-j_{sa}^{ik} \cdot (n+j_{sa}-j_{sa}^{ik}-s))!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{ik}\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j_{sa}}^{iso} &= \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \left. \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \right)
\end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa})} \right)$$

$$\sum_{n_i=n-\mathbb{k}}^n (n_{ik}=n+\mathbb{k}+j_{ik}+1) \sum_{n_{sa}=n-j^{sa}+1}^{(j_{ik}+j_{sa}-j_{sa}^{ik}+1)} (n_i - n_{ik} - j_{ik} + 1)!$$

$$\frac{(n_i - n_{ik} - j_{ik} + 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{(l_{ik}-k+1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n - \mathbb{k}_1 - \mathbb{k}_2)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n_{ik} + j_{sa} - j^{sa} - \mathbb{k}_2)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{ik}^{ik} < j_{sa} - 1 \wedge j_{sa}^i = j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + 1 \wedge$$

$$\mathbb{k}_2: 2 \leq \mathbb{k}_2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{ISO} &= \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \right. \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(j_{ik} + j_{sa}^{ik} - 1)} \sum_{(j_{sa} = j_{ik} + j_{sa}^{ik} + 1)}^{(j_{sa} + j_{ik} + j_{sa}^{ik} - 1)} \right) \cdot \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}_1}^n \sum_{(n_{ik} = j_{ik} + 1)}^{(n_i - j_{ik} - 1)} \sum_{(n_{sa} = \mathbf{n} - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)} \cdot \\
& \frac{(n_i - n_{ik})!}{(j_{sa} - \mathbb{k}_1 - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - \mathbb{k}_2 - 1)!}{(j^{sa} - \mathbb{k}_1 - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(j_{ik} + j_{sa}^{ik} - 1)} \sum_{j_{sa} = j_{ik} + j_{sa}^{ik} - j_{sa}^{ik}}^{(j_{sa} + j_{ik} + j_{sa}^{ik} - 1)} \cdot \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}_1}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k}_1 + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \cdot \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(n_{sa} + j_{ik} + j_{sa}^{ik} - 1)} \cdot
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \geq 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{ik} + k - j_{sa}^{ik})}$$

$$\sum_{(n_i = j_{sa}^{ik} - k)} \sum_{(n_i = \mathbf{n} + \mathbb{k} (n_{is} + \mathbb{k} + j_{sa}^{ik} - j_{ik}))}$$

$$n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1 \quad (n_{ik} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{l_s+j_{sa}-1}^{l_s+j_{sa}-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-1} \frac{(n_i-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j^{sa}-n-l_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!} \right) + \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{l_s+j_{sa}-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j^{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j^{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(n_{sa}+j^{sa}-n-1)! \cdot (n-j^{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \right)$$

$$\begin{aligned}
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = l_s + j_{sa}}^{\mathbf{n} + j_{sa} - 1} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k} - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_s = \mathbf{n} + j_{sa} - j^{sa} - \mathbb{k}_2}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - j_{ik} - 1)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - 2)! \cdot (n_i - j_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - \mathbf{n} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(\quad)} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{(\quad)} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(\quad)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot
\end{aligned}$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}.$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

$$f_z S_{j_{ik}, j_{sa}}^{ISO} \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \right)$$

$$\sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\begin{aligned}
& \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) + \\
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{\mathbf{n}+j_{sa}-s} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(j_{ik} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(\mathbf{l}_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D)}^{(j_{sa}=j_{ik}+j_{sa}^{ik}-j_{sa})}$$

$$\sum_{(n+l_k)}^{(n_i-j_s)} \sum_{(n_{is}+l_k+j_{sa}^{ik}-j_{ik})}$$

$$n_{ik}=n_{is}+j_{sa}^{ik}-l_{k_1} \quad (n_{ik}=n_{ik}+j_{ik}-j^{sa}-l_{k_2})$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l_{k_1} - l_{k_2})!}{(n - l_{k_1} - l_{k_2})!}.$$

$$\frac{1}{(n + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik}) \vee$$

$$(D \geq n < n \wedge l_s \geq 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \Big) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{j_{sa} = l_{sa} + \mathbf{n} - D}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - j_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \right) +$$

$$\left(\sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{j_{sa} = l_{sa} + \mathbf{n} - D}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - j_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \right)$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+1}^{n_{ik}} \sum_{j_{sa}=n_{sa}+1}^{n_{sa}+j_{sa}-s} \frac{(n_i - j_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}}^{(l_{ik})} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{l_{sa}+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!(j_{sa}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-\mathbf{n}-l_i)!}{(D+j_{sa}^s+s-\mathbf{n}-l_i-j_{sa}^{ik})! \cdot (n+j_{sa}-j_{sa}^s-s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1) \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \\
& D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik}) \vee \\
& ((D \geq \mathbf{n} < n \wedge l_s \geq 1 \wedge l_s \leq D - \mathbf{n} + 1) \wedge \\
& j_{sa}^{ik} < j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \\
& D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik})) \wedge
\end{aligned}$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^s - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik}, j^{sa}}^{ISO} = & \left(\sum_{k=1}^n \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+1)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - l_{k_2} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - l_{k_2})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \left. \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \\
 & \left(\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
 & \sum_{n_i=n+l_k}^n \sum_{(n_{ik}=n+l_{k_2}-j_{ik}+1)}^{(n_i-j_{ik}-l_{k_1}+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-l_{k_2}} \\
 & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - l_{k_2} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - l_{k_2})!} \cdot \\
 & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
 & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \left. \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \right)
 \end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{lk}-D-j_{sa})}^{(\mathbf{l}_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}+j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \cdot \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2 - 1)!} \cdot \\
& \frac{(n_{sa} + j_{sa} - \mathbf{n} - 1)!}{(j^{sa} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - 1)! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{lk}-D-s)}^{(\mathbf{l}_s+j_{sa}^{lk}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1))$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{ik} = j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s - \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_1 - j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \leq 5 \wedge s = s - \mathbb{K} \wedge$$

$$\mathbb{K}_2 = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}$$

$$\sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{(j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{ik})}$$

$$\sum_{n_i=n}^n \sum_{(n_{ik}=n+l_{ik}-j_{ik}+1)}^{(n_{ik}=n+l_{ik}-j_{ik}+1)} \sum_{(n_{sa}=n-j^{sa}+1)}^{(n_{sa}=n-j^{sa}+1)}$$

$$\frac{(n_i - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - l_{ik} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - l_{ik})!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+l_k}^n \sum_{(n_{is}=n+l_k+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n - 1)!}{(D + j_{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
& D + s - n < l_i \leq D + l_s + j_{sa} - n - 1)) \wedge \\
& ((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
& D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge \\
& (D \geq n < n \wedge l = \mathbb{k} > 1) \wedge \\
& j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge \\
& s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^i, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge \\
& s = s + \mathbb{k} \wedge \\
& \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow
\end{aligned}$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(l_i + n + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_i + n + j_{sa} - D - s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{\mathbb{k}_2} \sum_{(j_{ik}+j_{sa}^{ik}-D-s)}^{(l_{ik}+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} j_{sa}^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - l_i)!} \cdot \\
& \frac{(D + j_{sa} + s - n - l_i - j_{sa}^{ik})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}{(D + j_{sa} + s - n - l_i - j_{sa}^{ik})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} < D + l_s - n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_2: 2 - 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z^{S_{j_{ik}, j_{sa}}^{iso}} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - \mathbf{n} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{l_{ik}+j_{sa}-j_{sa}^{ik}}^{()}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{1}{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s + j_{sa} - j_{ik} - \mathbb{k}_1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - \mathbb{k}_1 - 2)!}$$

$$\frac{(D - l_i)!}{(n_i + j_{sa} + j_{sa}^{ik} - n - l_i - j_{sa} - s)! \cdot (n + j_{sa} - j_{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} < D + l_s < n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_2: 2 = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_{sa}+j_{sa}^{ik}-1)} \sum_{(j_{ik}-l_{ik}+n+j_{sa}^{ik}-D-s)}^{n+j_{sa}-s} j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} j_{sa}^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j_{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j_{sa} + s - n - l_i - j_{sa}^{ik})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s < D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_2: 2 - 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}_2} \sum_{(j_{sa}^{ik} + j_{sa}^{ik} - j_{sa})}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa}^{sa} = j_{sa} + 1}^{j_{sa}^{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + \mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}+1}^{j_{sa}^{ik}} \\ &\quad \sum_{n_i=n+\mathbb{k}_1}^n \sum_{(n_i=j_{ik}-\mathbb{k}_1)} \sum_{n_{sa}=n-j_{sa}^{ik}}^{n_{sa}=n-j_{sa}^{ik}-\mathbb{k}_2} \\ &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\quad \frac{(n_i - \mathbb{k}_2 - 1)!}{(j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ &\quad \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\quad \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} - \\ &\quad \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\quad \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ &\quad \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()} \end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - l_{sa} - 1) \wedge$$

$$(D \geq \mathbf{n} < n \wedge \mathbb{k}_1 + \mathbb{k}_2 > 0 \wedge$$

$$j_{sa} = j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa} = j_{sa}^{ik} - 1 \wedge$$

$$s \cdot \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq \mathbb{k}_1 + s = s + \mathbb{k}_1$$

$$\mathbb{k}_z: z = 2, \dots, \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik} j^{sa}}^{\text{iso}} = \sum_{k=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_{sa} + \mathbf{n} - D}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \sum_{n_i = \mathbf{n} + \mathbb{k}_1}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_{sa}+j_{sa}^{ik}-D-j_{sa})} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{K}_1}^{\mathbf{n}} \sum_{(n_i-j_{ik}-\mathbb{K}_1+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{(n_{sa}=\mathbf{n}-j^{sa}+1)}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \cdot \frac{(j_{sa}^{ik}-j_{sa}^{sa}-1)!}{(j_{sa}^{ik}-j_{sa}^{sa}-1)!} \cdot \\
& \frac{(D+l_i)!}{(D+l_s+s-n+l_i-j_{sa}^{sa} \cdot (n+j_{sa}-j_{sa}^{sa}-s))!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$$

$$(D \geq n < n \wedge l_s = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_1 + \mathbb{k}_2 = \mathbb{k} \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\Delta} \sum_{j_{ik}=0}^{l_{ik}+n-l_{sa}-j_{sa}^{ik}-1} \sum_{j_{sa}^{ik}=0}^{(l_s+j_{sa}^{ik}-1)} \sum_{j_{sa}=j_{sa}^{ik}}^{(n_i-j_s+1)} \\
& \sum_{n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})} \\
& \sum_{n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < l_s \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{\binom{()}{n}} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}^s=l_i+\mathbf{n}+j_{sa}-D-s} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}+1)}^{(n_i-j_{ik}+1)} \sum_{(n_{ik}+j_{ik}-\mathbb{k}_2)}^{(n_{ik}+j_{ik}-\mathbb{k}_2)} \\ & \frac{(n_i-j_{ik}+1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \frac{(n_{ik}-j_{sa}-\mathbb{k}_2+1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \frac{(n_{sa}-1)!}{(j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-l_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} - \\ & \sum_{k=1}^{\binom{()}{n}} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}^s=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \\ & \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \end{aligned}$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}.$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) =$$

$$\sum_{k=1}^{j_{sa}^{ik}-1} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{is} = n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n + j_{sa}^{ik} - j_{sa} - 1)!}.$$

$$\frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - j_{ik} - s - 2 \cdot j_{sa})!}{(l_s - 2)!}.$$

$$\frac{(n + j_{sa}^{ik} - j_{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + j^{sa} + j_{sa}^{ik} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s \leq 1 \wedge l_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} -$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - n \leq l_{ik} \leq D - l_s + j_{sa}^{ik} - n - 1 \wedge$$

$$(D + j_{sa}^{ik} \leq n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s_{sa} = \{j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_{zS}^{ISO}_{j_{ik}, j^{sa}} = & \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(j^{sa}=l_{ik}+n+j_{sa}-D-j_{sa}^{ik})}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n - n_{sa} - 1)!}{(n + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)} \sum_{(j^{sa}=l_{ik}+n+j_{sa}-D-j_{sa}^{ik})}^{l_s+j_{sa}-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_z^{ISO} j_{ik}, j_{sa} = \sum_{k=1}^n \sum_{(j_{ik} = \mathbf{l}_{ik} + \mathbf{n} - D)}^{(j^{sa} + j_{sa}^{ik} - \mathbf{l}_{sa})} \sum_{j_{sa} = \mathbf{l}_{ik} + \mathbf{n} + j_{sa} - D - s}^{\mathbf{l}_{ik} + j_{sa} - j_{sa}^{ik}} \frac{(n_i - j_{ik} - \mathbb{K}_1 + 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j^{sa} - \mathbf{l}_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \sum_{k=1}^n \sum_{(j_{ik} = \mathbf{l}_{ik} + \mathbf{n} - D)}^{(\mathbf{l}_{ik})} \sum_{j_{sa} = \mathbf{l}_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{\mathbf{n} + j_{sa} - s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot \\
& \frac{(\mathbf{n} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik}^{ik} - j_{sa}^{ik} - j_{sa})}^{(j_{ik}^{ik} - j_{sa}^{ik} - j_{sa})} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{sa}}^{ISO} = \sum_{k=1}^{(l_i + n - \mathbb{k} - D - s)} \sum_{j_{ik} = l_{ik} + n - j_{sa} - \mathbb{k}_1 - 1}^{(l_i + n - \mathbb{k} - D - s)} \sum_{j_{sa} = l_i + n + j_{sa} - D - s}^{(l_i + n - \mathbb{k} - D - s)} \sum_{n_{ik} = n - j_{ik} - 1}^{(n - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{(n - j_{ik} - j_{sa} - \mathbb{k}_2)} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(n_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \sum_{k=1}^{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{(l_{ik})} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n + j_{sa} - s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{ik} - j_{sa}^{ik})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(\mathbf{n} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s+j_{sa}-1)} \sum_{j_{sa}^{ik}=\mathbf{n}+j_{sa}^{ik}-D-s}^{j_{ik}+l_{sa}-\mathbf{n}+j_{sa}^{ik}-D-s} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=\mathbf{n}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{ik}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=\mathbf{n}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_{sa}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_s \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$f_z S_{j^{sa}} = \sum_{k=1}^{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}^{sa}}^{l_{sa}} \sum_{j_{sa}=j_{sa}+1}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s > j - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq n + j_{sa} - s$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq n + l_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_2: 2 = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j^{sa} - s)!}{(l_s - j^{sa} - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} j_{sa}^{iso} = & \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n=\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\ & \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \cdot \frac{(j_{ik}-j_{sa}^{ik}-1)!}{(j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D+l_i)!}{(D+l_s+s-n+l_i-j_{sa}^{sa} \cdot (n+j_{sa}-j_{sa}^{sa}-s))!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_s + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n + 1 \wedge$$

$$(D \geq n < n \wedge l_s = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \leq n - s \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik} j_{sa}}^{\text{ISO}} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{j_{ik}=l_i}^{(j_{ik}^{ik}-D+l_i)} \sum_{j_{sa}=j_{sa}^{ik}-j_{sa}}^{(n_i-j_s+1)} \sum_{j_{is}=n+\mathbb{K}}^{(n_i-j_s+1)} \sum_{j_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}^{(n_{is}=n+\mathbb{K}+j_{sa}^{ik}-j_{ik})} \sum_{j_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}^{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{K}_1 - \mathbb{K}_2)!}{(n_i - n - \mathbb{K}_1 - \mathbb{K}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < l_s \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n \wedge l_i \leq D + s - n \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} - j_{sa} + j_{sa} - j_{sa}^{ik})} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}_1}^n \sum_{(\mathbb{k}_1 = j_{ik} + 1)}^{(n_i - j_{ik} - 1)} \sum_{(n_{sa} = \mathbf{n} - j_{sa} + 1)}^{(n_{ik} + j_{ik} - \mathbb{k}_2)} \\ & \frac{(n_i - n_{ik})!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \cdot \\ & \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^k \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\ & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(\quad)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{(\quad)} \\ & \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \end{aligned}$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa})!}.$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

$$j_{ik}, j^{sa} = \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)} \sum_{n_{sa} = n - j^{sa} + 1}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)} j_{sa}^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)}$$

$$\sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa}^{ik} - s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n + j_{sa}^{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa}^{ik} - s - 2 \cdot j_{sa}^{ik})!}{(l_s - 2)!}.$$

$$\frac{(n + j_{sa}^{ik} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + j^{sa} + j_{sa}^{ik} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_s \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2)$$

$$f_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{sa} + 1}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\begin{aligned}
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{j_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2)} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{is} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{l_s+j_{sa}-1} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot
\end{aligned}$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa})!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}}^{(n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)} \\ & \frac{(n_i-n_{sa}-1)!}{(j_{ik}-2)! \cdot (n_{ik}-j_{ik}+1)!} \cdot \\ & \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ & \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(n_{ik}+j_{sa}-j_{sa}-l_{ik})! \cdot (j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot \\ & \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \end{aligned}$$

$$\sum_{k=1}^{(l_s+j_{sa}^{ik}-k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa} = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^{sa}, j_{sa}^{ik}, \dots, j_{sa}^{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = \mathbf{n} + \mathbb{k} \wedge$$

$$(\mathbf{z} = \mathbf{n} + \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(l_{ik})} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})} j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j_{sa}^{ik} - 1)! \cdot (n - j^{sa} - \mathbf{n} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{j_{ik}=1}^{(l_s+j_{sa}^{ik}-1)} \sum_{j_{sa}^{ik}=1}^{(l_s+j_{sa}^{ik}-1)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n_i-j_s+1)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$fz S_{j_{ik}}^{iso} = \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-1}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa}^{ik} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_i \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_i + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned} f_{zS}^{ISO}_{j_{ik}, j_{sa}} &= \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j_{sa} = l_{sa} + n - 1}^{n} \\ &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \\ &\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_s + j_{sa}}^{n} \\ &\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \end{aligned}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^n (l_{ik} - j_{sa}^{ik})} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}+n+j_{sa}^{ik}-D-s)}$$

$$\sum_{i=1}^{(n_i-j_s)} \sum_{(n_i+l_k+(n_{i_s}+l_k+j_{sa}^{ik}-j_{ik}))}$$

$$\sum_{n_{ik}=n_{i_s}+j_{sa}^{ik}-l_{k_1}}^{(l_{ik}-l_{k_1})} \sum_{(n_{ik}=n_{ik}+j_{ik}-j^{sa}-l_{k_2})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l_{k_1} - l_{k_2})!}{(n - n - l_{k_1} - l_{k_2})!}.$$

$$\frac{1}{(n + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}^{sa}}^{iso} = \sum_{i=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j_{sa}^{ik}=j_{sa}^{ik}+1}^{n+j_{sa}-s} \sum_{j_{sa}=n-D}^{n+j_{sa}-s} \frac{(n_i - j_{ik} - j_{sa}^{ik} + 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(l_s+j_{sa}^{ik}-1)} \sum_{j_{sa}^{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}}^{n+j_{sa}-s} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa}^{sa} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{sa}^{ik} - j_{sa})!} \cdot \\
& \frac{(n_i + j_{sa} - \mathbf{n} - s)!}{(n_i + j^{sa} - \mathbf{n} - s)! \cdot (n_i - j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}_1} \sum_{(j_{ik}+j_{sa}^{ik}-j_{sa}^{ik}-D-s)}^{(l_i+j_{sa}^{ik}-j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 1) \wedge$$

$$j_{sa} - j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{i_1}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$j_{sa}^{ik} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_{ik} + n - D)} l_{ik} + j_{sa} - j_{sa}^{ik} \sum_{j_{sa} = l_{sa} + n - D}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=0}^n \sum_{j_{ik}=n-D}^{n-D} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_s+j_{sa}-1)} j^{sa} = l_i + n + j_{sa} - D - s$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} (n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa}^{ik} + 1 > l_s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_{z=2}^{j_{sa}^{ik}} = & \sum_{k=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{l_{ik} = l_{ik} + \mathbf{n} - D}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + \mathbf{n} - D}^{n + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1}^{\sum (l_{ik})} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{n+j_{sa}-s} j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=n+l_1}^n \sum_{(n_{ik}=n+l_2-j_{ik}+1)}^{(n_i-j_{ik}-l_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j_{sa}^{ik}-l_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - l_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - l_2)!} \cdot \\
& \frac{(n_i - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - 1)!}{(l_{ik} + j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa}^{ik})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - l_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{\sum (l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{n} j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=n+l_1}^n \sum_{(n_{is}=n+l_1+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-l_1}^{n} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l_1 - l_2)!}{(n_i - n - l_1 - l_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j}^{ls} &= \left(\sum_{k=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}} \right. \\ &\quad \sum_{n_i=\mathbf{n}+\mathbb{k}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1} \\ &\quad \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\ &\quad \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\quad \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\quad \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) + \end{aligned}$$

$$\begin{aligned} &\left(\sum_{k=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \right. \\ &\quad \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (D + j_{sa} - j^{sa})!} \cdot \sum_{k=1}^n \sum_{j_{sa}=j_{sa}}^{(\cdot)} \sum_{j_{sa}=j_{sa}}^{(\cdot)} \\
& \frac{(n_i + 2 - j_{sa}^{ik} - j_{ik} - s - 1)! \cdot (j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n - 2 \cdot j_{sa}^{ik} - j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D \geq n < n - l_s = 1, l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} - n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + n \geq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} - n \wedge l_i \leq D + s - n \wedge$$

$$(D \geq n < n - l_s = 1 \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{iso} &= \sum_{k=1}^{\quad} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=j_{sa}}^{l_{sa}} \\
&\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot \\
&\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot \\
&\frac{(n_i - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
&\frac{(n_i - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
&\frac{(D - j_{sa} - l_{sa} - s)!}{(D - j^{sa} - \mathbf{n} - l_{sa} - 1) \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
&\sum_{k=1}^{\quad} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j^{sa}=j_{sa}} \\
&\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\quad)} \\
&\frac{(n_i - \mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
&\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}
\end{aligned}$$

$$D > \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2}^{n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2} \frac{(n_i - j_{ik} - \mathbb{k}_1 + 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - j_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - j_{sa} - n - 1)!}{(n_{sa} - j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} - \sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_{sa}=j_{sa}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}^{\binom{()}{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2}^{n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2} \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} &= \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} j_{sa} = j_{ik} + j_{sa}^{ik} - j_{sa}^{ik} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)}^{(n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)} j_{sa}+1 \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(n_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} - s)!} \cdot \\ &\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j_{sa}=j_{sa}} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2}^{(\quad)} \\ &\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ &\frac{(D - \mathbf{l}_i)!}{(D + s - \mathbf{n} - \mathbf{l}_i)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$((D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^i - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} \sum_{j_{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_i-j_{sa}-\mathbb{k}_2}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D + s - n - l_i)!}{(n - s)!}$$

$$((D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n))$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} + j_{sa}^{ik} - j_{sa} - n \wedge l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1} \sum_{(l_{ik})}^{(j_{ik}=j_{sa}^{lk})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_i - 1)!}{(n_i + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{lk})}^{()} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - j_{ik} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}-j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}^{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-\mathbb{k}_2} \\ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\ \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\ \frac{(n_{sa}-1)!}{(j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ \left. \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n-s)!} \right) + \\ \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}+1}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1) l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i-n_{ik}-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}+1)!} \cdot \\ \left. \frac{(n_{ik}-n_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \right)$$

$$\begin{aligned}
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{sa})} \sum_{(n_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa})} \\
& \sum_{n_i=n}^n \sum_{(n_{ik}=n+l_{ik}-j_{ik}+1)}^{(n_{ik}=n+l_{ik}-j_{ik}+1)} \sum_{(n_{sa}=n-j^{sa}+1)}^{(n_{sa}=n-j^{sa}+1)} \\
& \frac{(n_i - j_{ik} - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - l_{ik} - 1)!}{(j_{sa}^{ik} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - l_{ik})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j_{sa}^{sa}=j_{sa}}^{()} \\
& \sum_{n_i=n+l_{ik}}^n \sum_{(n_{ik}=n_i-j_{ik}-l_{ik}+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{ik}}^{()}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} & S_{j_{ik}, j_{sa}}^{l_{sa}} = \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ & \left. \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \right) + \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left(\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} + j_{ik} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n - j^{sa} - 1)!}{(n + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - j^{sa} - s)!}{(D + j_{sa} - n - s)! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik})}^{(\quad)} \sum_{j^{sa}=j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\quad)} \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D - n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 5 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} &= \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \\ &\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} - \\ &\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^{sa}} \\ &\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(\quad)} \\ &\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ &\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s = j_{sa}^{ik} - 1$$

$$s: \{j_{sa}^s, \mathbb{K}_1, j_{sa}^{ik}, \dots, j_{sa}^i, \dots, j_{sa}\} \wedge$$

$$s \geq 5 \wedge s = \dots + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \dots + \mathbb{K}_2) \wedge$$

$$fz S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\binom{D}{2}} \sum_{(j_{ik}=j_{sa}^{ik}, j_{sa}=j_{sa})} \sum_{(j_{ik}=j_{sa}^{ik}, j_{sa}=j_{sa})}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1, n_{sa}=n-j_{ik}+j_{sa}-\mathbb{k}_2)}^{\binom{D}{2}} \sum_{(j_{ik}=j_{sa}^{ik}, j_{sa}=j_{sa})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 2 \cdot j_{sa}^{ik})!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2) \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(n + s - n - l_i)! \cdot (n - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa}^{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge j_{sa}^{ik} + j_{sa}^{ik} - j_{sa} > j_{sa}^{ik}$$

$$(D \geq n < n \wedge j_{sa}^{ik} - \mathbb{k} > 0)$$

$$j_{sa}^{ik} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^s, \dots, j_{sa}^i\} \wedge$$

$$s \geq 0, s = s + 1$$

$$\mathbb{k}_z: z = 2, \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{ISO} = \left(\sum_{k=1}^{\binom{D}{2}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - s)} \sum_{(j_{ik}=l_{ik} + j_{sa}^{ik} - D - s)}^{n + j_{sa} - s} \sum_{n-D}^{n + j_{sa} - s} \right) \cdot \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_{ik}-j_{ik}+1)}^{(n_i - j_{ik} - \mathbb{k}_1 - 1)!} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Big) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j^{sa}=l_i + n + j_{sa} - D - s}^{n + j_{sa} - s}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_{sa}+s-l_i-j_{sa}-j_{sa}^{ik}-j_{sa}-s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s - \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^{ik}\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbf{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j_{sa}}^{ISO} = & \left(\sum_{k=1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \\
& \left. \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \right)
\end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\left(\sum_{k=1}^n \frac{(l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - s)!}{(j_{ik} - l_{sa} - n + j_{sa}^{ik} - 1)!} \sum_{j_{sa}^{ik} = l_{sa} + n - j_{sa} - s}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - j_{sa} - s}^{n + j_{sa} - s} \right)$$

$$\sum_{n_i = n + \mathbb{K}_1}^n \sum_{n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{j_{sa}^{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa}}^{(n + j_{sa}^{ik} - s)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s}$$

$$\sum_{n_i = n + \mathbb{K}_1}^n \sum_{n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j^{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - 1)! \cdot (D + j_{sa} - n_{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}^{ik})} \sum_{(j_{ik}=l_i, j_{sa}^{ik}=D-s)}^{(n+j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(n+j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik})) \wedge$$

$$(D \geq n < n \wedge l = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k_1, j_{sa}^{ik}, \dots, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_{j_{ik}, j_{sa}}^{ISO} = \left(\sum_{k=1}^{n+j_{sa}-s} \sum_{(j_{ik}=l_{ik}+n-D)}^{n+j_{sa}-s} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\ \sum_{i=n+k}^{(n_i-j_{ik}-k_1+1)} \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{n_{ik}+j_{ik}-j_{sa}-k_2} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \\ \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) + \\ \left(\sum_{k=1}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{(j_{ik}=l_{ik}+n-D)}^{n+j_{sa}-s} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right)$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(n + j^{sa} - \mathbf{n} - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{\Delta} \sum_{(j_{ik} - j_{sa}^{ik} - j_{sa})}^{(j_{ik} - j_{sa}^{ik} - j_{sa})} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_2)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik})) \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k_1, j_{sa}^{ik}, \dots, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$\begin{aligned} & \left(\sum_{j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa}}^{n+j_{sa}^{ik}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right) f_Z^{ISO} S_{j_{ik}, j_{sa}}^{j_{sa}^{ik}} \\ & \sum_{n_i=n+k}^n \sum_{(n_{ik}=n+k_2-j_{ik}+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-k_2} \\ & \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - k_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left(\sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(n+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \cdot \sum_{n+l_i+\mathbb{k}}^n \sum_{(n_{is}=n+l_i+\mathbb{k})}^{(n_{is}+1)} j_{ik} \cdot \sum_{(n_{ij}=n_{is}+j_{sa}^{ik}-\mathbb{k}_1-\mathbb{k}_2)}^{(n_{ij}+1)} j^{sa} - \mathbb{k}_2) \cdot \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D - l_i)!}{(D + j^{sa} - s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s = D - n - 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq j_{ik} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s - j_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{\text{ISO}} = & \sum_{k=1} \sum_{(j_{ik}=l_s+\mathbf{n}+j_{sa}^{ik}-D-1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - \mathbf{n} - j_{sa}^{ik})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} & f_Z S_{j_{ik}, j_{sa}}^{iso} \sum_{i=1}^{(l_i + j_{sa}^{ik} - D - s - 1)} \sum_{j_{ik}=l_s + n + j_{sa}^{ik} - D - 1}^{n + j_{sa} - s} \sum_{j_{sa}=l_i + n + j_{sa} - D - s}^{n + j_{sa} - s} \\ & \sum_{i=n+\mathbb{k}}^{(n_i - \mathbb{k}_1 + 1)} \sum_{n_{ik}=n+\mathbb{k}_2-j_{ik}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n - \mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa}^{ik} - l_{sa} - s)!}{(D + j_{sa}^{ik} - \mathbf{n} - j_{sa}^{ik})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}}^{is} &= \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{n+j_{sa}-s} \sum_{j^{sa}=l_s+n+j_{sa}-D-1}^{n+j_{sa}-s} \\ &\sum_{n=\mathbb{k}}^{(n_i-j_{sa}-\mathbb{k}_1+1)} \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\ &\sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{n+j_{sa}-s} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_{sa}+s-l_i-j_{sa}^{ik}-j_{ik}-j_{sa}-s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{ik} + j_{sa} - s > l_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s - \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{lk}, \dots, \mathbb{k}_2, j_{sa}^{ik}, \dots, j_{sa}^{ik}\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbf{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} &= \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_s+\mathbf{n}+j_{sa}^{ik}-D-1)}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot
\end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}-j_s+1)}$$

$$\sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\sum_{(n_{is}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot$$

$$\frac{1}{(n - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{sa} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z \mathcal{S}_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1} \sum_{\binom{(\quad)}{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{n+j_{sa}-s}^{n+j_{sa}-s} j_{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(n_i-j_{ik}-\mathbb{k}_1+1) \\ (n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}-j_{sa}=\mathbf{n}+j_{sa}+1)}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \frac{(n_i-j_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \frac{(n_{ik}-j_{sa}-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}-j_{ik}-n_{sa}-\mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa}-j_{sa}-\mathbf{n}-1)!}{(n_{sa}-j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \\ & \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-l_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} - \\ & \sum_{k=1} \sum_{\binom{(\quad)}{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{n+j_{sa}-s}^{n+j_{sa}-s} j_{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{\binom{(\quad)}{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}}^{(n_i-j_s+1)} \\ & \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\ & \frac{1}{(\mathbf{n}+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{n, s} &= \sum_{k=1}^{(n+j_{sa}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}+j_{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 + \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - 1)!}.$$

$$\frac{1}{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s + j_{sa} - j_{ik} - s)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - l_i)!}.$$

$$\frac{(j_{sa}^{ik} + s - n - l_i - j_{sa}^{ik})! \cdot (n + j_{sa} - j^{sa} - s)!}{(D - l_i)!}.$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa})) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=n-D}^{n+j_{sa}-s} j_{sa}^{s+l_{sa}-D-s} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{ik}}^{n_{sa}=n-j_{ik}} \frac{(n_{ik}-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_i-j_{ik}-\mathbb{k}_1+1)!} \cdot$$

$$\frac{(n_{sa}-j_{sa}-\mathbb{k}_2-1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot$$

$$\frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot$$

$$\frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} \cdot$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(n-j_{ik}-\mathbb{k}_1+1)} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} j_{sa}^{s+l_{sa}-D-s} \cdot$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \frac{(n_i-j_s+1)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^n \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(n-j_s+1)} \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot$$

$$\frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \big) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbf{n} - 0 \wedge$$

$$j_{sa}^i \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^i, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}^i, j_{sa}, \dots, j_{sa}\} \wedge$$

$$s \geq 6 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_Z: \mathbb{Z} \geq 2 \wedge \mathbb{k} = \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{\text{ISO}} = \sum_{k=1} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{l_i=1}^{n+1} \sum_{j_{ik}=l_i+1}^{n+1} \sum_{j_{sa}^{ik}=j_{ik}-D-s}^{n+j_{sa}^{ik}-s} \sum_{j_{sa}=j_{sa}^{ik}}^{n-j_{sa}^{ik}} \sum_{j_{ik}=n+\mathbb{k}}^{n_i-j_s+1} \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{n_i-j_s+1} \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(n)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{\binom{n+j_{sa}-s}{j_{ik}-j_{sa}^{ik}+1}} \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_{i_2}-j_{ik}+1}^{n_i-j_{ik}-1} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \cdot \\ & \sum_{k=1}^{\binom{n+j_{sa}-s}{j_{ik}-j_{sa}^{ik}+1}} \sum_{j_{ik}=j_{sa}^{ik}+j_{sa}}^{\binom{n+j_{sa}-s}{j_{ik}-j_{sa}^{ik}+1}} \sum_{j_{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{n+j_{sa}-s} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - n - \mathbb{k}_1 - \mathbb{k}_2)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge (l_i + j_{sa} - s > l_{sa}) \vee \\
& (D \geq n < n \wedge l_s > D - n + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge (l_i + j_{sa} - s = l_{sa})) \wedge \\
& (D \geq n < n \wedge l_s = D - n + 1 \wedge \\
& j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge \\
& s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge \\
& s > j_{sa} \wedge l_{sa} = s + \mathbb{k} \wedge \\
& \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow
\end{aligned}$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} &= \sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_{ik}+n-D)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{l_i=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+j_{sa}^{ik}-D-s)}^{(n+j_{sa}^{ik}-s)} \sum_{j_{sa}=j_{sa}^{ik}}^{(n-j_s+1)} \\
& \sum_{=n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{(n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1)}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k_1, j_{sa}^{ik}, \dots, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$f_Z S_{i,sa}^{iso} = \sum_{k=1}^{(j_{sa}^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{sa} = n + j_{sa} - s}^{n + j_{sa} - s} \sum_{n_i = n + k}^n \sum_{(n_{ik} = n_{sa} - j_{ik} + 1)}^{(n_i - j_{ik} - k_1 - 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - k_2} \frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - j_{sa}^{sa} - 1)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa}^{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - k_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa}^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \cdot \sum_{k=1}^{()} \sum_{(j_{ik} = j_{sa}^{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j_{sa}^{sa} = l_i + n + j_{sa} - D - s}^{n + j_{sa} - s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!} \cdot \frac{(j_{ik}-j_{sa}^{ik}-1)!}{(j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D-j_{sa}+s-l_i-j_{sa}^{ik}-j_{sa}-s)!} \cdot (n+j_{sa}-j_{sa}^{ik}-s)!
\end{aligned}$$

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee \\
& (D \geq \mathbf{n} < n \wedge l_s > D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} + 1 \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa})) \wedge \\
& (D \geq \mathbf{n} < n \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \wedge \\
& j_{sa}^{ik} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge \\
& \mathbf{s}: \{j_{sa}^s, \dots, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge \\
& s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge \\
& \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow
\end{aligned}$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(l_i+\mathbf{n}+j_{sa}^{ik}-D-s-1)} \sum_{(j_{ik}=l_{ik}+\mathbf{n}-D)}^{n+j_{sa}-s} \sum_{j_{sa}=l_i+\mathbf{n}+j_{sa}-D-s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(n+j_{sa}-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1}^{(n+j_{sa}^{ik}-s)} \sum_{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa}^{ik})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_2)}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s + j_{sa}^{ik} - j_{ik} - s - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - \mathbb{k}_1)!}.$$

$$\frac{(j_{sa}^{ik} + s - n - l_i - j_{sa}^{ik} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!}{(D - \mathbb{k}_1)!}.$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{ISO} = \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_{ik} + n - D)}^{n + j_{sa} - s} \sum_{j_{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{sa} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{(n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)} \frac{(n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \cdot \sum_{k=1}^{()} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j_{sa} = l_{sa} + n + j_{sa} - D - s}^{n + j_{sa} - s} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_{sa} + 1)} \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{()} \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(\mathbf{l}_s - 2)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - \mathbf{l}_i)!}{(D + j^{sa} + s - \mathbf{n} - \mathbf{l}_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa})!}.$$

$$((D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1, j_{sa}^s < j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\}$$

$$s \leq 6 \wedge \mathbf{s} = \mathbf{s} \wedge \mathbb{K} \wedge$$

$$\mathbb{K}_2: \mathbf{s} = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j^{sa}}^{\text{ISO}} = & \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = \mathbf{l}_s + \mathbf{n} + j_{sa}^{ik} - D - 1)}^{j^{sa} = \mathbf{l}_{sa} + \mathbf{n} - D} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{\mathbf{n} + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!}. \end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\sum_{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}} \binom{D+j_{sa}-l_{sa}-s}{j_{ik}-j_{sa}^{ik}-1}} \sum_{j_{sa}^{ik}=l_i+n+j_{sa}-D}^{\binom{D+j_{sa}-l_{sa}-s}{j_{ik}-j_{sa}^{ik}-1}}$$

$$\sum_{n_{is}=n+l_k+j_{sa}^{ik}-j_{ik}}^{\binom{D+j_{sa}-l_{sa}-s}{j_{ik}-j_{sa}^{ik}-1}} \binom{D+j_{sa}-l_{sa}-s}{j_{ik}-j_{sa}^{ik}-1}$$

$$\sum_{n_{is}=n+l_k+j_{sa}^{ik}-j_{ik}}^{\binom{D+j_{sa}-l_{sa}-s}{j_{ik}-j_{sa}^{ik}-1}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-l_{k_2}}^{\binom{D+j_{sa}-l_{sa}-s}{j_{ik}-j_{sa}^{ik}-1}}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l_{k_1} - l_{k_2})!}{(n_i - n - l_{k_1} - l_{k_2})!} \cdot$$

$$\frac{1}{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D - l_i) \leq n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik} j_{sa}}^{\text{iso}} = & \sum_{k=1}^{(\mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = \mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa})}^{(\mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{sa} = \mathbf{l}_{sa} + \mathbf{n} - D)}^{(\mathbf{n} + j_{sa} - s)} \\ & \sum_{(n_i = \mathbf{n} + \mathbb{K}_1 - \mathbb{K}_2 + 1)}^{(n_i = \mathbf{n} + \mathbb{K}_1 - \mathbb{K}_2 + 1)} \sum_{(n_{sa} = \mathbf{n} - j_{sa} + 1)}^{(n_{sa} = \mathbf{n} - j_{sa} + 1)} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(n_i - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j_{sa} - \mathbf{l}_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{(\mathbf{n} + j_{sa}^{ik} - s)} \sum_{(j_{ik} = \mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa})}^{(\mathbf{n} + j_{sa}^{ik} - s)} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})}^{(\mathbf{n} + j_{sa} - s)} \\ & \sum_{n_i = \mathbf{n} + \mathbb{K}_1}^{\mathbf{n}} \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2} \end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - n - l_i - j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(n+j_{sa}-s)} \sum_{(j_{ik}=l_i+j_{sa}^{ik}-D-j_{sa}^{ik})} \sum_{(n_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} + 1 \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1, j_{sa}^s < j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\}$$

$$\mathbf{s} \cdot 6 \wedge \mathbf{s} = \mathbf{s} + \mathbb{K}$$

$$\mathbb{K}_2: \mathbf{s} = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{ISO} = & \sum_{k=1}^{(\mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = \mathbf{l}_{ik} + \mathbf{n} - D)}^{n + j_{sa} - s} \sum_{j_{sa} = \mathbf{l}_{sa} + \mathbf{n} - D} \\ & \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})} (n+j_{sa}^{ik}-s)} \sum_{(j_{sa}=j_{ik}+j_{sa}-j_{sa})} (n+j_{sa}^{ik}-s) \\
& \sum_{n_i=n+\mathbb{k}_1}^n \sum_{n_{ik}=n+\mathbb{k}_2}^n \sum_{n_{sa}=n-j^{sa}+1}^{n-j_{ik}-j_{sa}-\mathbb{k}_2} \frac{(n - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(j_{sa} - n_{ik} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{\sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \binom{(\quad)}{\quad}} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n_{ik} + j_{sa} - j^{sa} - \mathbb{k}_2)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{sa} - j_{sa} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k} - j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + 1 \wedge$$

$$\mathbb{k}_z: z \geq 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{\text{iso}} &= \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{l_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}
\end{aligned}$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{\binom{n_{sa} - s}{n_{sa} - s}} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}) : j_{sa}=l_i+n+l_{sa}-D-s}$$

$$\sum_{n_i=n+l_k} \sum_{(n+l_k+j_{sa}^{ik}-j_{ik})}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-l_{k_1}} \sum_{(n_{ik}+j_{ik}-j^{sa}-l_{k_2})}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - l_{k_1} - l_{k_2})!}{(n - l_{k_1} - l_{k_2})!} \cdot$$

$$\frac{1}{(n + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} - j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa} > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n < n \wedge I = l_k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, l_{k_1}, j_{sa}^{ik}, \dots, l_{k_2}, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
 f_Z S_{j_{ik}, j^{sa}}^{\text{iso}} = & \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(\mathbf{l}_{ik})} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}+j_{sa}-j_{sa}^{ik}+1}^{(n_{ik}+j_{ik}-j^{sa}-1)} \\
 & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
 & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
 & \frac{(n_{sa} - \mathbb{k}_2 - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
 & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
 & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
 & \sum_{k=1} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(\mathbf{n}+j_{sa}^{ik}-s)} \\
 & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
 & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
 & \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
 & \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
 & \frac{(\mathbf{l}_s - 2)!}{(\mathbf{l}_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
 \end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_{2, \dots, j^{sa}}^{iso} = & \left(\sum_{k=1}^{(n_i - n_{ik} - \mathbb{k}_1 + 1)} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa}^{ik} = j_{sa} + 1}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \right. \\ & \sum_{n_{ik} = n + \mathbb{k}}^{(n_i - n_{ik} - \mathbb{k}_1 + 1)} \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \\ & \left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j_{sa}^{ik} = j_{sa} + 2}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \right) \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - \mathbf{n} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} + \\
& \sum_{l_{ik}=j_{sa}^{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_s+j_{sa}-1)} \sum_{j^{sa}=j_{sa}+1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+j_{sa}^{ik}-2 \cdot j_{ik}-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-j_s-2)!}{(l_s+j_{sa}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}-1)!} \cdot \\
& \frac{(D-l_i)!}{(D+j^{sa}+s-n-l_i-j_{sa})! \cdot (n+j_{sa}-j^{sa}-s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_{sa} < D + j_{sa} - n$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s$$

$$l_{sa} - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D > n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s > 0 \wedge l_s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{iso} &= \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) + \\
& \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{ik}-j_{sa}^{ik}-1)} \sum_{j_{sa}^{ik}=j_{sa}^{ik}+1}^{l_{sa}} j_{sa}^{ik} \right) \cdot \\
& \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=n_{sa}-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1-1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) - \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{ik}-j_{sa}^{ik}-1)} \sum_{j_{sa}^{ik}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \\
& \frac{(l_s - 2)!}{(l_s + j_{ik}^{ik} - j_{ik} - 1)!} \frac{(j_{ik} - j_{sa}^{ik} - 1)!}{(D - l_i)!} \\
& \frac{(D - j^{sa} + s - 1 - l_i - j_{sa}^{ik} - (n + j_{sa} - j^{sa} - s)!}{(D - j^{sa} + s - 1 - l_i - j_{sa}^{ik} - (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - 1 \wedge l_i \leq D + s - 1 \wedge$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \leq n - s \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j^{sa} = j_{sa} + 1}$$

$$\sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=l_s+j_{sa}}^{n_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}_1}^{\mathbf{n}} \sum_{n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}+j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D+l_i)!}{(D+l_s+s-l_i-j_{sa}^{ik} \cdot (n+j_{sa}-j^{sa}-s))!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge l_s > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^{ik}, \dots, j_{sa}^{ik}\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \right)$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\left(\sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j_{sa}=j_{sa}^{ik}+1}^{j_{sa}+j_{sa}^{ik}-j_{sa}^{ik}} \right)$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}_2}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_{ik}=j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(j_{ik} - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (j_{ik} - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{l_{ik}} \sum_{j_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}_2}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - l_{sa})!} \cdot \\
& \frac{\left(\sum_{k=1}^{\left(\frac{D + j^{sa} - n - l_{sa} - j_{sa}^{ik} - j_{sa}^{sa} - s \right)} \sum_{j_{sa}^{sa} = j^{sa} + j_{sa}^{sa} - j_{sa}^{sa}} \sum_{j_{sa}^{sa} = j_{sa} + 1}^{j_{sa}^{sa} - j_{sa}^{sa}} \right)}{(D + j^{sa} - n - l_{sa} - j_{sa}^{ik} - j_{sa}^{sa} - s)!} \cdot \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik}}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1} \sum_{n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}^{\left(\frac{D + j^{sa} - n - l_{sa} - j_{sa}^{ik} - j_{sa}^{sa} - s \right)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \left(\sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{j_{sa} = j_{sa} + 1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \right. \\ & \sum_{n_i = n + \mathbb{k}_1}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_{ik} = j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{(n_{sa} = n - j_{sa} - \mathbb{k}_2)} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(j_{sa} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \right) + \\ & \left(\sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(\mathbf{l}_s + j_{sa} - 1)} \sum_{j_{sa} = j_{sa} + 2}^{(\mathbf{l}_s + j_{sa} - 1)} \right. \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{(n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)} \\ & \left. \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \right) \end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{j_{ik}=j_{sa}^{ik}-1}^{(l_s+j_{sa}^{ik}-1)} \sum_{j_{sa}^{ik}=j_{sa}^{ik}-1}^{l_{sa}} \sum_{j_{sa}^{ik}=j_{sa}^{ik}+1}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}_1}^{\mathbf{n}} \sum_{n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1}^{n_i-j_{ik}-\mathbb{K}_2-1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \\
& \frac{1}{(n+2 \cdot j^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D+l_i)!}{(D-j^{sa}+s-l_i-j_{sa}^{ik} \cdot (n+j_{sa}-j^{sa}-s))!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s - \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{lk}, \dots, \mathbb{k}_2, j_{sa}^{ik}, \dots, j_{sa}^{ik}\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k}_z = \mathbb{k}_1 + \mathbb{k}_2 \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{iso} &= \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{lk}+1)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \left. \frac{(n_i-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_i-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \right)
\end{aligned}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg)$$

$$\left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa})} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa})} \right)$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}+j_{ik}+1)}^{(n_{ik}+j_{ik}+1)} \sum_{(n_{sa}=\mathbf{n}-j^{sa}+1)}^{(n_{sa}+j_{sa}-j^{sa}+1)} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - n_{sa} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{(l_{ik}-k+1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik}-k+1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{sa})}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^{\mathbf{n}} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\cdot)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n_{ik} + j_{sa} - j^{sa} - \mathbb{k}_2)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{ik}^{ik} < j_{sa} - 1 \wedge j_{sa}^{ik} \leq j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1 - j_{sa}^{ik}, \dots, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbf{n} \wedge$$

$$\mathbb{k}_Z: 2 \leq \mathbb{k}_Z \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{ISO} &= \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \right. \\
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \left. \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(j_{ik} + j_{sa} - j_{sa}^{ik} + 1)} \right) \cdot \\
& \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_i - j_{ik} - 1)}^{(n_i - j_{ik} - 1)} \sum_{(n_{ik} = n - j^{sa} + 1)}^{(n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{K}_2)} \\
& \frac{(n_i - n_{ik} - \mathbb{K}_1)!}{(j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - j_{ik} - \mathbb{K}_2 - 1)!}{(j^{sa} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(j_{ik} + j_{sa} - j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + \mathbb{K}_1}^n \sum_{(n_{is} = n + \mathbb{K}_1 + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{K}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2)}^{()}
\end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z \geq 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik} j_{sa}}^{iso} = \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{sa}} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!}.$$

$$\sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} - k)} \sum_{(j_{sa} = j_{ik} + k - j_{sa}^{ik})}$$

$$\sum_{(n_i = j_{sa}^{ik} - k)}^{(n_i - j_{sa}^{ik})} \sum_{(n_{is} = n + \mathbb{k} - (n_{is}^{ik} + \mathbb{k} + j_{sa}^{ik} - j_{ik}))}$$

$$n_{ik} = n_{is} + j_{sa}^{ik} - \mathbb{k}_1 \quad (n_{ik} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)$$

$$\frac{(n_i + 2 \cdot j_{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!}$$

$$D \geq n \wedge l_s > 1 \wedge l_i \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$(D \geq n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{l_s+j_{sa}-1}^{l_s+j_{sa}-1} \right. \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-1} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j^{sa} - \mathbf{n} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \right) + \\ \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j^{sa}+j_{sa}^{ik}-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+\mathbf{n}-D}^{l_s+j_{sa}-1} \right. \\ \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\begin{aligned}
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = l_s + j_{sa}^{ik} - 1}^{n + j_{sa} - 1} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k} - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_s = n + \mathbb{k} - j_{sa}^{ik} - \mathbb{k}_2}^{n_{ik} + j_{sa}^{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - \mathbb{k}_1 + 1)! \cdot (n_i - n_{ik} - j_{sa}^{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{is} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - \mathbb{k}_2 - 1)! \cdot (n_{ik} + j_{sa}^{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1}^{()} \sum_{(j_{ik} = j^{sa} + j_{sa}^{ik} - j_{sa})}^{()} \sum_{j^{sa} = l_i + n + j_{sa} - D - s}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{()} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot
\end{aligned}$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s - 1)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

$$\begin{aligned} & f_z S_{j_{ik}, j_{sa}}^{ISO} \left(\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa})} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \right. \\ & \sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \left(\sum_{k=1} \binom{l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - 1}{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = l_{sa} + n - D}^{n + j_{sa} - s} \right. \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(j_{ik} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \binom{l_s + j_{sa}^{ik} - 1}{(j_{ik} = l_{sa} + n + j_{sa}^{ik} - D - j_{sa})} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$\sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D)}^{(l_{ik})} \sum_{(j_{sa}=j_{ik}+j_{sa}^{ik}-j_{sa})}$$

$$\sum_{(n_i=j_{sa}^{ik}-j_{ik})}^{(n_i-j_s)} \sum_{(n_{is}=\mathbf{n}+\mathbb{k}_1+j_{sa}^{ik}-j_{ik})}$$

$$\sum_{(n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_1)} \sum_{(n_{ik}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(D - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s \geq 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \bigg) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{j_{sa} = l_{sa} + n - D}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \frac{(n_i - n_{ik} - \mathbb{K}_1 + 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) +$$

$$\left(\sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{(j_{sa} + j_{sa}^{ik} - j_{sa} - 1)} \sum_{j_{sa} = l_{sa} + n - D}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \frac{(n_i - j_{ik} - \mathbb{K}_1 + 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \frac{(n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right) +$$

$$\sum_{n_i = n + \mathbb{K}}^n \sum_{(n_{ik} = n + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = n - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2} \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \right)$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=n-j^{sa}+1}^{n+j_{sa}-s} \frac{(n_i - j_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - j_{sa}^{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}+j_{sa})}^{()} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{ik} - j_{sa} - 1)!} \cdot \frac{(j_{ik} - j_{sa} - 1)!}{(l_s + l_i)!} \cdot \\
& \frac{(D + j_{sa} + s - \mathbf{n} - l_i - j_{sa}^{ik})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa} - l_{ik} + j_{sa} - n - j_{sa}^{ik})!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1) \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \\
& D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik}) \vee \\
& ((D \geq \mathbf{n} < n \wedge l_s \geq 1 \wedge l_s \leq D - \mathbf{n} + 1) \wedge \\
& j_{sa}^{ik} < j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge \\
& D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_{ik} + j_{sa} - \mathbf{n} - j_{sa}^{ik})) \wedge
\end{aligned}$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^l - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^l\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j^{sa}}^{iso} = & \left(\sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{ik}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left. \frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) + \\
& \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{j^{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \right. \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \left. \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \right)
\end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=l_{sa}+n+j_{sa}^{lk}-D-j_{sa})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n+j_{sa}+1}^{n_{ik}+j_{ik}-j^{sa}} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - \mathbb{k}_1 - 1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2 - 1)!} \cdot \\
& \frac{(n_{sa} + j_{sa} - n - 1)!}{(j^{sa} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - j_{sa}^{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left(\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \right) - \\
& \sum_{k=1} \sum_{(j_{ik}=l_i+n+j_{sa}^{lk}-D-s)}^{(l_s+j_{sa}^{lk}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{lk}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot
\end{aligned}$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1))$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^{ik} < j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_s^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\}$$

$$s \leq 6 \wedge \mathbf{s} = s \leq \mathbb{k} \wedge$$

$$\mathbb{k}_z = 2 \wedge \mathbb{k} = \mathbb{k}_1 \vee \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j^{sa}}^{\text{ISO}} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j^{sa} = l_i + \mathbf{n} + j_{sa} - D - s} \\ &\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \end{aligned}$$

$$\begin{aligned}
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{(j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{ik})} \cdot \\
& \sum_{n_i=n}^n \sum_{(n_{ik}=n+l_{ik}-j_{ik}+1)}^{(n_{ik}=n+l_{ik}-j_{ik}+1)} \sum_{(n_{sa}=n-j^{sa}+1)}^{(n_{sa}=n-j^{sa}+1)} \cdot \\
& \frac{(j_{ik} - n_{ik} - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} - l_{k_1} + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - l_{k_2} - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (j_{ik} + j_{sa} - n_{sa} - j^{sa} - l_{k_2})!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{(j^{sa}=l_i+n+j_{sa}-D-s)}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \cdot \\
& \sum_{n_i=n+l_{k_1}}^n \sum_{(n_{is}=n+l_{k_1}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!} \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - 1)!}{(D + j_{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j_{sa}^{ik} - s)!}
\end{aligned}$$

$$\begin{aligned}
& ((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
& D + s - \mathbf{n} < l_i \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge \\
& ((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge \\
& j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge \\
& j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge \\
& l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge \\
& D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge \\
& (D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 1) \wedge \\
& j_{sa}^{ik} < j_{sa}^{ik} - 1 \wedge j_{sa} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge \\
& \mathbf{s}: \{j_{sa}^s, \dots, l_{sa}^s, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge \\
& l_{sa}^s = s + \mathbb{k} \wedge \\
& \mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow
\end{aligned}$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1}^{(l_i + \mathbf{n} + j_{sa}^{ik} - D - s - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_i + \mathbf{n} + j_{sa} - D - s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik}+j_{sa}^{ik}-D-s)}^{(l_{ik}+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)} j_{sa}=\mathbf{j}_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=\mathbf{n}_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=\mathbf{n}_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-\mathbf{n}-\mathbb{k}_1-s)!} \cdot \\
& \frac{1}{(n+2 \cdot j_{sa}+j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s-j_{sa}-j_{ik}-1) \cdot (j_{ik}-j_{sa}^{ik}-1)!}{(l_s+j_{sa}-j_{ik}-1)! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\
& \frac{(D-j_i)!}{(D+j_{sa}+s-\mathbf{n}-l_i-j_{sa})! \cdot (n+j_{sa}-j_{sa}^{ik}-s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s < D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} < D + l_s - j_{sa} < \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, j_{sa} - \mathbb{k}_1, j_{sa}^{ik}, \dots, j_{sa}^i - \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-1}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{n+j_{sa}-s} \sum_{j^{sa}=l_s+j_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})} \sum_{l_{ik}+j_{sa}-j_{sa}^{ik}}^{()}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - 1)!}$$

$$\frac{1}{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}$$

$$\frac{(D - l_i)!}{(n_i + j^{sa} + j_{sa}^{ik} - j_{sa} - n - l_i - j_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s > D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq n + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} < D + l_s < n - n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}, \dots, j_{sa}^i, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: 2 = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{ISO} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_i+n+j_{sa}^{ik}-D-s-1)} \sum_{j^{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1}^{(l_{sa}+j_{sa}^{ik}-1)} \sum_{(j_{ik}-l_{ik}+n+j_{sa}^{ik}-D-s)}^{n+j_{sa}-s} j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=\mathbf{l}_i+\mathbf{n}+j_{sa}^{ik}-D-s)} j_{sa}^{sa=j_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-s)}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j_{sa}^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n_i + 2 \cdot j_{sa}^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa}^{ik} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s + j_{sa}^{sa} - j_{ik} - \mathbb{k}_1 - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa}^{sa} - j_{ik} - \mathbb{k}_1 - 1) \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j_{sa}^{sa} + s - \mathbf{n} - l_i - j_{sa}^{ik})! \cdot (n + j_{sa} - j_{sa}^{sa} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s < D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa}^{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > -1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}^i, \dots, j_{sa}^{ik}, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_2: 2 - 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j_{sa}^{sa}=j_{sa}+1}^{l_{ik}+j_{sa}-j_{sa}^{ik}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}_1} \sum_{(j_{sa}+j_{sa}^{ik}-j_{sa})}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \sum_{j_{sa}^{sa}=j_{sa}+1}^{j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + \mathbf{n} + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik})}^{(\quad)} \sum_{j_{sa}=j_{sa}+1}^{j_{sa}^{ik}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{is}-j_{sa}-\mathbb{k}_2} \\ & \frac{(n_{ik}-n_{ik}-\mathbb{k}_1-1)!}{(j_{ik}-2)! \cdot (n_{ik}-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \frac{(n_{ik}-n_{ik}-\mathbb{k}_2-1)!}{(j_{sa}-1-1)! \cdot (n_{ik}+j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-\mathbf{n}-1)! \cdot (\mathbf{n}-j_{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik}-j_{sa}^{ik}-1)!}{(\mathbf{l}_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D+j_{sa}-\mathbf{l}_{sa}-s)!}{(D+j_{sa}-\mathbf{n}-\mathbf{l}_{sa})! \cdot (\mathbf{n}+j_{sa}-j_{sa}-s)!} - \\ & \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})}^{(\quad)} \sum_{j_{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s}^{\mathbf{l}_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)}^{(\quad)} \end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_{sa} \leq D + l_s + j_{sa} - l_{sa} - 1) \wedge$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge$$

$$\mathbb{k}_z: z = 2, \dots, \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik} j^{sa}}^{iso} = \sum_{k=1}^{(l_{sa} + n + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j^{sa} = l_{sa} + n - D}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{ik} = n + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = n - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_{sa}+j_{sa}^{ik}-D-j_{sa})} \sum_{(j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik})} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}_1}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=l_{sa}+j_{sa}^{ik}-D-s)}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}
\end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \\
& \frac{1}{(n+2 \cdot j_{sa}^{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!(j_{sa}^{ik}-j_{sa}^{sa}-1)!} \\
& \frac{(D+l_i)!}{(D+l_{sa}+s-l_i-j_{sa}^{sa} \cdot (n+j_{sa}-j_{sa}^{sa}-s))!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa}^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - n < l_{ik} \leq D + l_s + j_{sa}^{ik} - n - 1 \wedge$$

$$(D \geq n < n \wedge l_s = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{sa} \leq j_{sa}^{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_1 + \mathbb{k}_2 = \mathbb{k} \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{ISO} &= \sum_{k=1} \sum_{(j_{ik}=l_{ik}+n-D)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\Delta} \sum_{j_{ik}=0}^{l_{ik}+n-l_{sa}-j_{sa}^{ik}} \sum_{j_{sa}^{ik}=0}^{(l_s+j_{sa}^{ik}-1)} \sum_{j_{sa}=j_{sa}^{ik}}^{(n_i-j_s+1)} \\
& \sum_{n+\mathbb{k}}^{(n_i-j_s+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})} \\
& \sum_{k=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1}^{\binom{n}{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{n+j_{sa}-s} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_{ik}+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-\mathbb{k}_2} \\ & \frac{(n_{is}-n_{ik})!}{(j_{ik}-2)! \cdot (n_{is}-n_{ik}-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \frac{(n_{ik}-j_{sa}-\mathbb{k}_2+1)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}-j_{ik}-n_{sa}-j_{sa}-\mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa}-1)!}{(j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ & \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} \cdot \\ & \sum_{k=1}^{\binom{n}{j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}=l_i+n+j_{sa}-D-s}^{l_s+j_{sa}-1} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik}}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \sum_{\dots}^{\binom{n}{\dots}} \\ & \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \cdot \end{aligned}$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa}^{ik} - s)!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

$$\begin{aligned} & \sum_{k=1}^{fz} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(\mathbf{n}+j_{sa}^{ik}-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik} \\
& \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(\quad)} \sum_{(n_{is} = n_{ik} + j_{ik} - j_{sa}^{ik} - \mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n + j_{sa}^{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{sa} - j_{ik} - s - 2 \cdot j_{sa})!}{(l_s - 2)!} \cdot \\
& \frac{(j_{sa}^{ik} + j_{sa} - j_{sa}^{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + j^{sa} + j_{sa} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s \leq 1 \wedge l_s \leq D - n - 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - j_{sa}^{ik} -$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa}^{ik} - n \leq l_{ik} \leq D - l_s + j_{sa}^{ik} - n - 1 \wedge$$

$$(D - n) \leq n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \geq 6, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i \} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{iso} = & \sum_{k=1} \sum_{\binom{()}{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{\mathbf{n}+j_{sa}-s} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\binom{(n_i-j_{ik}-\mathbb{k}_1+1)}{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}} \sum_{n_{sa}=\mathbf{n}-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_i - j_{ik} - \mathbb{k}_1 - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(n_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1} \sum_{\binom{()}{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{j^{sa}=l_{ik}+\mathbf{n}+j_{sa}-D-j_{sa}^{ik}}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\binom{(n_i-j_s+1)}{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{\binom{()}{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_Z^{ISO} j_{ik}, j_{sa} = \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - l_{sa})} \sum_{(j_{ik} = l_{ik} + n - D)}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \sum_{j_{sa} = l_i + n + j_{sa} - D - s}^{l_{ik} + j_{sa} - j_{sa}^{ik}} \frac{(n_i - j_{ik} - \mathbb{K}_1 + 1)!}{(n_i - n_{ik} - \mathbb{K}_1 - 1)!} \cdot \frac{(n_{ik} + j_{ik} - j_{sa} - \mathbb{K}_2)!}{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!} \cdot \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(n_{ik} - j_{ik} - 1)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} + \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik} = l_{ik} + n - D)}^{(l_{ik})} \sum_{j_{sa} = l_{ik} + j_{sa} - j_{sa}^{ik} + 1}^{n + j_{sa} - s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa} - j_{sa}^{ik})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa}^{ik} - j_{sa})!} \cdot \\
& \frac{(\mathbf{n} + j_{sa} - \mathbf{n} - s)!}{(\mathbf{n} + j^{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} - j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}} \sum_{(j_{ik}^{ik} - j_{sa}^{ik} - j_{sa})}^{(j_{ik}^{ik} - j_{sa}^{ik} - j_{sa})} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_s+j_{sa}-1} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1 \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{sa}}^{ISO} = \sum_{k=1}^{(l_i+n-j_{sa}^{ik}-D-s)} \sum_{j_{sa}=l_{ik}+n-j_{sa}^{ik}-D-s}^{(l_i+n-j_{sa}^{ik}-D-s)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{(n-j_{sa}^{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}+1}^{(n-j_{sa}^{ik}-\mathbb{k}_2)} \frac{(l_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(n_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \sum_{k=1}^{(j_{ik}=l_i+n+j_{sa}^{ik}-D-s)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{n+j_{sa}-s}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (n_{sa} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - l_{sa} - j_{sa}^{sa} - 1)!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik} - 1)! \cdot (j^{sa} - j_{sa}^{ik} - j_{sa})!} \cdot \\
& \frac{(n_i + j_{sa} - \mathbf{n} - s)!}{(n_i + j^{sa} - \mathbf{n} - s)! \cdot (n_i - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_s+j_{sa}-1)} \sum_{(j_{ik}=\mathbf{n}+j_{sa}^{ik}-D-s)}^{(j_{ik}=\mathbf{n}+j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(j_{ik}=\mathbf{n}+j_{sa}^{ik}-D-s)} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_s \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$f_z S_{j^{sa}} = \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{()}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa} - j_{sa}^{ik} - j_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s < j - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa}^{ik} \leq n + j_{sa} - s$$

$$l_i - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq n + l_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 1) \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s \in \{j_{sa}, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s \leq s + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \cdot 2 = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j^{sa} - s)!}{(l_{sa} - j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{()} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{l_{ik}} \sum_{j^{sa}=l_i+\mathbf{n}+j_{sa}-D-s}^{l_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$\begin{aligned} j_{sa}^{iso} = & \sum_{k=1}^{\mathbf{l}_{ik}} \sum_{j_{ik}=j_{sa}^{ik}+1}^{\mathbf{l}_{ik}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{i=\mathbf{n}+\mathbb{K}}^n \sum_{n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1}^{j_{ik}-\mathbb{K}_1+1} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\ & \sum_{k=1}^{\mathbf{l}_s + j_{sa}^{ik} - k} \sum_{j_{ik}=j_{sa}^{ik}+1}^{\mathbf{l}_{ik}} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa}-\mathbb{k}_1-\mathbb{k}_2)!}{(n_i-n-\mathbb{k}_1-\mathbb{k}_2)!} \\
& \frac{1}{(n+2 \cdot j_{sa}+2 \cdot j_{sa}^{ik}-2 \cdot j_{ik}-s-2 \cdot j_{sa})!} \\
& \frac{(l_s-2)!}{(l_s+j_{sa}^{ik}-j_{ik}-1)!(j_{ik}-j_{sa}^{ik}-1)!} \\
& \frac{(D+l_i)!}{(D+l_s+s-n+l_i-j_{sa}^{sa} \cdot (n+j_{sa}-j_{sa}^{sa}-s))!}
\end{aligned}$$

$$D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_{sa} + j_{sa} - s > l_{sa} \wedge$$

$$D + s - n < l_i \leq D + l_s + s - n + 1 \wedge$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} \leq j_{sa} - 1 \wedge j_{sa}^s \leq j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}^i, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = n + \mathbb{k} \wedge$$

$$\mathbb{k}_2 \leq n - s \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_Z S_{j_{ik}, j_{sa}}^{\text{ISO}} &= \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}^{sa}-\mathbb{k}_2}
\end{aligned}$$

$$\begin{aligned}
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D + j_{sa} - l_{sa})!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{ik})} (j_{ik} = l_i) \sum_{j_{sa}^{ik} = D - l_i}^{j_{sa}^{ik} - D - l_i} \sum_{j_{sa}^{ik} = j_{sa}^{ik} - j_{sa}^{ik}}^{(n_i - j_s + 1)} \\
& \sum_{j_{sa}^{ik} = \mathbf{n} + \mathbb{k}}^{(n_i - j_s + 1)} \sum_{(n_{is} = \mathbf{n} + \mathbb{k} + j_{sa}^{ik} - j_{ik})} \\
& \sum_{j_{sa}^{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(n_i - j_s + 1)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)}^{(n_i - j_s + 1)} \\
& \frac{(n_i + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} \leq D + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik})} \sum_{(j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik})} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_i - j_{ik} - \mathbb{k}_1 + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{(n_{ik} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_{ik} + j_{ik} - \mathbb{k}_2)} \\ & \frac{(n_{ik} - j_{sa} - \mathbb{k}_1 + 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - j_{sa} - \mathbb{k}_2 + 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n + j_{sa} - j_{sa} - s)!} \cdot \\ & \sum_{k=1}^{(l_s + j_{sa}^{ik} - k)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\ & \sum_{n_i = n + \mathbb{k}}^n \sum_{(n_{is} = n + \mathbb{k} + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\ & \sum_{n_{ik} = n_{is} + j_{sa}^s - j_{sa}^{ik} - \mathbb{k}_1}^{(\quad)} \sum_{(n_{sa} = n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)}^{(\quad)} \\ & \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \end{aligned}$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa})!}.$$

$$D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_s + s - \mathbf{n} - 1 \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_Z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) =$$

$$j_{ik}, j^{sa} = \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}}$$

$$\sum_{n_i = \mathbf{n} + \mathbb{K}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{K}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{K}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\begin{aligned}
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{(l_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = l_i + n + j_{sa}^{ik} - D - s)} \sum_{j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \\
& \sum_{n_i = n + k}^n \sum_{(n_{is} = n + j_{sa}^{ik} - j_{ik})}^{(n_i - j_s + 1)} \\
& \sum_{n_{ik} = n_{is} + j_{sa}^{ik} - j_{sa}^{ik} - k_1}^{(n_i - j_s + 1)} \sum_{(n_{is} = n_{ik} + j_{ik} - j_{sa}^{ik} - k_2)}^{(n_i - j_s + 1)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - j_{ik} - s - 2 \cdot j_{sa} - k_1 - k_2)!}{(n_i - n + j_{sa}^{ik} - j_{sa}^{ik} - k_1 - k_2)!} \cdot \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - j_{ik} - s - 2 \cdot j_{sa})!}{(l_s - 2)!} \cdot \\
& \frac{(n + j_{sa} - j^{sa} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D + j^{sa} + j_{sa}^{ik} - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s > \mathbf{l}_s \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2)$$

$$\begin{aligned} f_{j_{ik}, j^{sa}}^{ISO} &= \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)} \sum_{j^{sa} = j_{sa} + 1} \mathbf{l}_{ik} + j_{sa} - j_{sa}^{ik} \\ &\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j^{sa} + 1}^{n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \end{aligned}$$

$$\begin{aligned}
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_{ik}+j_{sa}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{is} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=j_{sa}+1}^{l_s+j_{sa}-1} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} .
\end{aligned}$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa})!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} \leq D + j_{sa} - n \wedge l_i \leq D + s - n) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$l_i \leq D + s - n) \vee$$

$$(D > n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{iso} = & \sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_{ik})} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}^{ik}}^{(n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)} \\ & \frac{(n_i-j_{ik}-\mathbb{k}_1+1)!}{(j_{ik}-2)! \cdot (n_i-j_{ik}-\mathbb{k}_1+1)!} \cdot \\ & \frac{(n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)!}{(j_{sa}-j_{ik}-1)! \cdot (n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa}-1)!}{(n_{sa}+j_{sa}-n-1)! \cdot (n-j_{sa})!} \cdot \\ & \frac{(l_{ik}-j_{sa}^{ik}-1)!}{(l_{ik}-j_{ik})! \cdot (j_{ik}-j_{sa}^{ik}-1)!} \cdot \\ & \frac{(l_{sa}+j_{sa}^{ik}-l_{ik}-j_{sa})!}{(l_{sa}+j_{sa}-j_{sa}^{ik}-l_{ik})! \cdot (j_{sa}+j_{sa}^{ik}-j_{ik}-j_{sa})!} \cdot \\ & \frac{(D+j_{sa}-l_{sa}-s)!}{(D+j_{sa}-n-l_{sa})! \cdot (n+j_{sa}-j_{sa}-s)!} - \\ & \sum_{k=1}^{(l_s+j_{sa}^{ik}-k)} \sum_{(j_{ik}=j_{sa}^{ik}+1)}^{(l_s+j_{sa}^{ik}-k)} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(l_s+j_{sa}^{ik}-k)} \\ & \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\ & \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2)}^{()} \end{aligned}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \wedge$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{ik} \leq D + l_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} = 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa}^i - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^i, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = \mathbf{s} + \mathbb{k} \wedge$$

$$(\mathbf{z} = \mathbf{s} + \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} (j_{ik} = l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa}) \sum_{(l_{ik})} j^{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa})!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa}^{ik} - 1)!}{(l_s + j_{sa}^{ik} - 1)! \cdot (n - j^{sa} - s)!} \cdot \\
& \sum_{j_{ik}=1}^n \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{(j_{ik}=l_{sa}+n+j_{sa}-D-j_{sa})} \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{()} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{()} \\
& \frac{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge$$

$$D + j_{sa}^{ik} - \mathbf{n} < \mathbf{l}_{ik} \leq D + \mathbf{l}_s + j_{sa}^{ik} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} = \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_s \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2)$$

$$\begin{aligned} f_z S_{j_{ik}}^{iso} &= \sum_{k=1}^n \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{()} \sum_{j^{sa}=\mathbf{l}_{sa}+\mathbf{n}-D}^{\mathbf{n}+j_{sa}-s} \\ &\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{K}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ &\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \end{aligned}$$

$$\sum_{k=1}^{\infty} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_s+j_{sa}-1)} j^{sa} = l_{sa} + n - D$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{is}=n+\mathbb{k}+j_{sa}^{ik}-j_{sa})}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(n_i-j_s+1)} \sum_{(n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}^{(n_i-j_s+1)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - l_i)!}.$$

$$\frac{(D + j^{sa} + s - n - l_i - j_{sa} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!}{(D - l_i)!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_i \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} - n - j_{sa}^{ik} \wedge$$

$$D + s - n < l_i \leq D + l_i + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_i \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1}^{(j_{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{l_s + j_{sa} - 1} \sum_{j_{sa} = l_{sa} + n - 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ &\sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{(j_{ik} = j_{sa}^{ik} + 1)}^{n + j_{sa} - s} \sum_{j_{sa} = l_s + j_{sa}}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = \mathbf{n} + \mathbb{k}_2 - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \end{aligned}$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{\sum_{i=1}^n (l_{ik} - j_{sa}^{ik})} \sum_{(j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}^{(l_{ik}+n+j_{sa}-D-s)}$$

$$\sum_{i=n+\mathbb{k}}^{(n_i-j_s)} \sum_{(n_i+j_s+\mathbb{k}+j_{sa}^{ik}-j_{ik})}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-\mathbb{k}_1}^{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)} \sum_{(n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}.$$

$$((D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_{ik} + j_{sa} - n - j_{sa}^{ik} \wedge$$

$$D + s - n < l_i \leq D + l_{sa} + s - n - j_{sa}) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - (\mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}^{sa}}^{iso} = & \sum_{i=1}^{(l_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa} - 1)} \sum_{j_{sa}^{ik} = j_{sa}^{ik} + 1}^{n + j_{sa} - s} \sum_{j_{sa} = n - D}^{n + j_{sa} - s} \\ & \sum_{n_i = \mathbf{n} + \mathbb{k}}^n \sum_{(n_{ik} = n_{sa} - j_{ik} + 1)}^{(n_i - j_{ik} - \mathbb{k}_1 + 1)} \sum_{n_{sa} = \mathbf{n} - j_{sa} + 1}^{n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} + \mathbf{l}_{sa} - j_{sa} - \mathbf{l}_{ik} - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{sa}^{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(\mathbf{l}_{sa} + j_{sa}^{ik} - \mathbf{l}_{ik} - j_{sa})!}{(j_{ik} + \mathbf{l}_{sa} - j_{sa} - \mathbf{l}_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ & \frac{(D + j_{sa} - \mathbf{l}_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - \mathbf{l}_{sa})! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} + \\ & \sum_{k=1}^{(l_s + j_{sa}^{ik} - 1)} \sum_{j_{sa}^{ik} = \mathbf{l}_{sa} + \mathbf{n} + j_{sa}^{ik} - D - j_{sa}}^{n + j_{sa} - s} \sum_{j_{sa} = j_{ik} + j_{sa} - j_{sa}^{ik}} \end{aligned}$$

$$\begin{aligned}
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} - j_{sa} - l_{ik} - j_{sa}^{ik} - 1)!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik} - j_{sa}^{ik} - 1)! \cdot (j^{sa} + j_{ik} - j_{sa})!} \cdot \\
& \frac{(n_i + j_{sa} - \mathbf{n} - s)!}{(n_i + j^{sa} - \mathbf{n} - s)! \cdot (n_i + j_{sa} - j^{sa} - s)!} \cdot \\
& \sum_{k=1}^{\mathbb{k}_1} \sum_{(j_{ik}+j_{sa}^{ik}-j_{sa}^{ik}-D-s)}^{(l_i+j_{sa}^{ik}-j_{sa}^{ik}-D-s)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1}^{(\quad)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}
\end{aligned}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{sa} - j_{sa} + 1 > \mathbf{l}_s \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < \mathbf{l}_i \leq D + \mathbf{l}_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s > 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$D + j_{sa} - \mathbf{n} < \mathbf{l}_{sa} \leq D + \mathbf{l}_s + j_{sa} - \mathbf{n} - 1)) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 1) \wedge$$

$$j_{sa} - j_{sa}^{ik} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$j_{sa}^{ik} = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1}^{(j^{sa} + j_{sa}^{ik} - j_{sa})} \sum_{(j_{ik} = \mathbf{l}_{ik} + \mathbf{n} - D)} \sum_{j^{sa} = \mathbf{l}_{sa} + \mathbf{n} - D} \mathbf{l}_{ik} + j_{sa} - j_{sa}^{ik}$$

$$\begin{aligned}
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} + \\
& \sum_{k=0}^D \sum_{j_{ik}=n-D}^{l_{ik}+n-D} \sum_{j^{sa}=l_{ik}+j_{sa}-j_{sa}^{ik}+1}^{n+j_{sa}-s} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} -
\end{aligned}$$

$$\sum_{k=1} \sum_{\substack{(\quad) \\ (j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa})}} \sum_{l_s+j_{sa}-1} j^{sa}=\mathbf{l}_i+\mathbf{n}+j_{sa}-D-s$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{\substack{(\quad) \\ (n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{sa})}}^{(n_i-j_s+1)}$$

$$\sum_{n_{ik}=n_{is}+j_{sa}^{ik}-j_{sa}^{ik}-\mathbb{k}_1} \sum_{\substack{(\quad) \\ (n_{sa}=n_{ik}+j_{sa}^{ik}-j_{sa}-\mathbb{k}_2)}}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{1}{(n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}.$$

$$\frac{(l_s + j_{sa} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}{(D - l_i)!}.$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - \mathbf{n} - l_i - j_{sa} - s)! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$((D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_s - j_{sa}^{ik} + 1 \leq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa}^{ik} + 1 > l_s \wedge$$

$$D + j_{sa} - \mathbf{n} < l_{sa} \leq D + l_s + j_{sa} - \mathbf{n} - 1 \wedge$$

$$D + s - \mathbf{n} < l_i \leq D + l_{sa} + s - \mathbf{n} - j_{sa}) \vee$$

$$(D \geq \mathbf{n} < n \wedge l_s > 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1) \vee$$

$$(D \geq n < n \wedge l_s > 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge l_i + j_{sa} - s = l_{sa} \wedge$$

$$D + j_{sa} - n < l_{sa} \leq D + l_s + j_{sa} - n - 1)) \wedge$$

$$(D \geq n < n \wedge l = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \mathbb{K}_1 + \mathbb{K}_2) \Rightarrow$$

$$f_{z=2}^{SO} j_{sa} = \sum_{k=1}^{(l_{sa}+n+j_{sa}^{ik}-D-j_{sa}-1)} \sum_{l_{ik}=l_{ik}+n-D}^{n+j_{sa}-s} \sum_{j_{sa}=l_{sa}+n-D}^{n+j_{sa}-s} \\ \sum_{n_i=n+\mathbb{K}}^n \sum_{(n_{ik}=n+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2} \\ \frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\ \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} +$$

$$\begin{aligned}
& \sum_{k=1} \sum_{(l_{ik})}^{(l_{ik})} \sum_{(j_{ik}=l_{sa}+\mathbf{n}+j_{sa}^{ik}-D-j_{sa})}^{n+j_{sa}-s} j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}^{ik}}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_i + j^{sa} - \mathbf{n} - 1)!}{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot \\
& \frac{(l_{ik} + j_{ik} - 1)!}{(l_{ik} + j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - l_{sa} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} - \\
& \sum_{k=1} \sum_{(j_{ik}=l_i+\mathbf{n}+j_{sa}^{ik}-D-s)}^{(l_s+j_{sa}^{ik}-1)} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{is}=\mathbf{n}+\mathbb{k}+j_{sa}^{ik}-j_{ik})}^{(n_i-j_s+1)} \\
& \sum_{n_{ik}=n_{is}+j_{sa}^s-j_{sa}^{ik}-\mathbb{k}_1} \sum_{(n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2)}^{(\quad)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)!} \cdot \\
& \frac{1}{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(l_s - 2)!}{(l_s + j_{sa}^{ik} - j_{ik} - 1)! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot
\end{aligned}$$

$$\frac{(D - l_i)!}{(D + j^{sa} + s - n - l_i - j_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!}$$

$$D \geq n < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$fz S_{j_{ik}, j}^{ls} = \left(\sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j^{sa}=j_{sa}} \sum_{n_i=\mathbb{k}}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{ik}=\mathbb{k}_2-j_{ik}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \sum_{n_{sa}=n-j^{sa}+1} \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \right) +$$

$$\left(\sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{lk})} \sum_{j^{sa}=j_{sa}+1}^{l_{sa}} \sum_{n_i=\mathbb{k}}^n \sum_{n_{ik}=\mathbb{k}_2-j_{ik}+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \right)$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - 1)!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - 1)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (D + j_{sa} - j^{sa} - 1)!} \cdot$$

$$\sum_{k=1}^n \sum_{j_{sa}=j_{sa}}^{(\cdot)}$$

$$\sum_{n_{ik}=n_{ik}+\mathbb{k}}^n \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\cdot)}$$

$$\frac{(n_i + 2 - j_{sa}^{ik} - j_{ik} - s - 1)! \cdot (j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n_i - 2 \cdot j_{sa}^{ik} - j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n, l_s = 1, \mathbb{k}_1 \leq D - \mathbf{n} + 1$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa}$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} - \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + \mathbf{n} \geq l_s \wedge l_{sa} - j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$l_{ik} - j_{sa}^{ik} + j_{sa}^{ik} - \mathbf{n} \wedge l_i \leq D + s - \mathbf{n} \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{ik} = 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned}
f_z S_{j_{ik}, j^{sa}}^{ISO} &= \sum_{k=1}^{\binom{()}{j_{ik}=j^{sa}+j_{sa}^{ik}-j_{sa}}} \sum_{j_{sa}^{sa}=j_{sa}}^{l_{sa}} \\
&\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j^{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
&\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot \\
&\frac{(n_i + j^{sa} - n - 1)!}{(n_i - j_{ik} - 1)! \cdot (n - j^{sa} - 1)!} \cdot \\
&\frac{(l_{ik} - j_{ik})!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\
&\frac{(D - j_{sa} - l_{sa} - s)!}{(D - j^{sa} - n - l_{sa} - 1)! \cdot (n + j_{sa} - j^{sa} - s)!} - \\
&\sum_{k=1}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{j_{sa}^{sa}=j_{sa}} \\
&\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{\binom{()}{j_{ik}=j_{sa}^{ik}}} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\
&\frac{(n_i + n - 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
&\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

$$D - n - 1 \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - n \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = & \sum_{k=1} \sum_{(j_{ik}=j_{sa}+j_{sa}^{ik}-j_{sa})} \sum_{j_{sa}=j_{sa}}^{l_{ik}+j_{sa}-j_{sa}^{ik}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+j_{sa}-\mathbb{k}_2)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}+j_{ik}-j_{sa}^{ik}-\mathbb{k}_2}^{n_{ik}+j_{sa}-j_{sa}^{ik}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - j_{sa} - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - j_{sa} - 1)!}{(n_{sa} - j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \cdot \\ & \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}} \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(j_{ik}=j_{sa}^{ik})} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(j_{ik}=j_{sa}^{ik})} \\ & \frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ & \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!} \end{aligned}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j_{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge$$

$$(D \geq n < n \wedge I = k > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, k_1, j_{sa}^{ik}, \dots, k_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + k \wedge$$

$$k_z: z = 2 \wedge k = k_1 + k_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{ik})} j_{sa} = j_{ik} + j_{sa}^{ik} \\ &\sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{(n_i-j_{ik}-k_1+1)} \sum_{(n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2)}^{(n_{ik}+j_{ik}-j_{sa}-k_2)} j_{sa}+1 \\ &\frac{(n_i - n_{ik} - k_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - k_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - k_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa} - k_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ &\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \cdot \\ &\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j_{sa}=j_{sa}} \\ &\sum_{n_i=n+k}^n \sum_{(n_{ik}=n_i-j_{ik}-k_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-k_2}^{()} \\ &\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - k_1 - k_2)!}{(n_i - n - k_1 - k_2)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ &\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \end{aligned}$$

$$\left((D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge \right.$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 > \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{sa} - j_{sa} + 1 > \mathbf{l}_s \wedge$$

$$\mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})}^{(\mathbf{l}_{ik})} \sum_{j_{sa}^{sa}=j_{sa}}^{\mathbf{l}_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot$$

$$\frac{(\mathbf{l}_{ik} - j_{sa}^{ik} - 1)!}{(\mathbf{l}_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - s)!} \cdot$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{sa}^{ik}}$$

$$\sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_i-j_{sa}-\mathbb{k}_2}^{(\quad)}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}$$

$$\frac{1}{(D + s - n - l_i)! \cdot (n - s)!}$$

$$((D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$l_i \leq D + s - n)$$

$$(D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq n + j_{sa} - s \wedge$$

$$l_{sa} - j_{sa} + 1 > l_s \wedge$$

$$l_{sa} + j_{sa}^{ik} - j_{sa} - n \wedge l_i \leq D + s - n)) \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa}^{s-1} = j_{sa}^{s-1} - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_Z S_{j_{ik}, j^{sa}}^{iso} = \sum_{k=1} \sum_{(j_{ik}=j_{sa}^{lk})}^{(l_{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j^{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_i + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa} - 1)!}{(n_i - j_{ik} - \mathbb{k}_1 + 1)! \cdot (n_{ik} - j_{sa}^{lk} - 1)!} \cdot$$

$$\frac{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{lk} - 1)!}{(l_{sa} + j_{ik} - l_{ik} - j_{sa})!} \cdot$$

$$\frac{(j_{ik} + j_{sa} - j^{sa} - l_{ik})!}{(j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - j_{sa}^{lk} - s)! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} -$$

$$\sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{lk})}^{(\quad)} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{(\quad)} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}^{(\quad)}$$

$$\frac{(\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - j_{ik} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$l_s \wedge \mathbf{n} \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$f_z S_{j_{ik}, j_{sa}}^{iso} = \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}-j_{sa}^i)} \sum_{j_{sa}=j_{sa}^{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_i-j_{ik}-\mathbb{k}_1+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ \frac{(n_{sa} - 1)!}{(j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} \right) + \\ \left(\sum_{k=1} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}+1}^{(j_{sa}+j_{sa}^{ik}-j_{sa}-1) l_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\ \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!}.$$

$$\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})}^{(l_{sa})} \sum_{(n_{sa}=l_{ik}+j_{sa}-j_{sa}^{ik})}^{(l_{sa})}$$

$$\sum_{n_i=\mathbf{n}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_1-j_{ik}+1)}^{(n_{ik}=j_{ik}-j_{sa}^{ik}+\mathbb{k}_2)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{(n_{sa}=j_{ik}-j_{sa}^{ik}+\mathbb{k}_2)}$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_{ik} - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!}.$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!}.$$

$$\frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!}.$$

$$\frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!}.$$

$$\frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(j_{ik} + l_{sa} - j^{sa} - l_{ik})! \cdot (j^{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!}.$$

$$\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} + j_{sa} - j^{sa} - s)!} \Bigg) -$$

$$\sum_{k=1}^{()} \sum_{(j_{ik}=j_{sa}^{ik})}^{()} \sum_{j^{sa}=j_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{()} \sum_{n_{sa}=n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2}$$

$$\frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j^{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!}.$$

$$\frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}$$

$$D \geq \mathbf{n} < n \wedge l_s = 1 \wedge l_{sa} \leq D + j_{sa} - \mathbf{n} \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 > l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} > l_{ik} \wedge$$

$$(D \geq \mathbf{n} < n \wedge l = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} & S_{j_{ik}, j_{sa}}^{l_{sa}} = \left(\sum_{k=1}^{(l_{ik})} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j^{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}} \right. \\ & \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j^{sa}+1}^{n_{ik}+j_{ik}-j^{sa}-\mathbb{k}_2} \\ & \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ & \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{k}_2)!} \cdot \\ & \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j^{sa})!} \cdot \\ & \frac{(l_{ik} - j_{sa}^{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa}^{ik} - 1)!} \cdot \\ & \left. \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - l_{sa})! \cdot (\mathbf{n} - s)!} \right) + \end{aligned}$$

$$\begin{aligned}
& \left(\sum_{k=1}^{\binom{D}{2}} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{ik}} \sum_{j_{sa}=j_{ik}+j_{sa}-j_{sa}^{ik}+1}^{l_{sa}} \right. \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{k}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+\mathbb{k}_2}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2} \\
& \frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\
& \frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - j_{sa} - \mathbb{k}_2)!} \cdot \\
& \frac{(n_i + j_{sa} - \mathbf{n} - 1)!}{(n_i + j_{sa} - \mathbf{n} - 1)! \cdot (\mathbf{n} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{ik} - j_{ik} - 1)!}{(l_{ik} - j_{ik})! \cdot (j_{ik} - j_{sa} - 1)!} \cdot \\
& \frac{(l_{sa} + j_{ik} - l_{ik} - j_{sa})!}{(j_{ik} + j_{sa} - j_{sa} - l_{ik})! \cdot (j_{sa} + j_{sa}^{ik} - j_{ik} - j_{sa})!} \cdot \\
& \left. \frac{(D + j_{sa} - j_{sa} - s)!}{(D + j_{sa} - \mathbf{n} - s)! \cdot (\mathbf{n} + j_{sa} - j_{sa} - s)!} \right) - \\
& \sum_{k=1}^{\binom{D}{2}} \sum_{(j_{ik}=j_{sa}^{ik})}^{l_{ik}} \sum_{j_{sa}=j_{sa}}^{l_{sa}} \\
& \sum_{n_i=\mathbf{n}+\mathbb{k}}^n \sum_{(n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1)}^{\binom{D}{2}} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{l_{sa}} \\
& \frac{(\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(s - \mathbf{n} - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (\mathbf{n} + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - \mathbf{n} - l_i)! \cdot (\mathbf{n} - s)!}
\end{aligned}$$

$$D - \mathbf{n} \wedge l_s = 1 \wedge l_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$l_{ik} - j_{sa}^{ik} + 1 = l_s \wedge l_{sa} + j_{sa}^{ik} - j_{sa} = l_{ik} \wedge l_i + j_{sa} - s > l_{sa} \wedge$$

$$l_i \leq D + s - n \wedge$$

$$(D \geq n < n \wedge I = \mathbb{k} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1 \wedge$$

$$s: \{j_{sa}^s, \dots, \mathbb{k}_1, j_{sa}^{ik}, \dots, \mathbb{k}_2, j_{sa}, \dots, j_{sa}^i\} \wedge$$

$$s \geq 6 \wedge s = s + \mathbb{k} \wedge$$

$$\mathbb{k}_z: z = 2 \wedge \mathbb{k} = \mathbb{k}_1 + \mathbb{k}_2) \Rightarrow$$

$$\begin{aligned} f_z S_{j_{ik}, j_{sa}}^{iso} &= \sum_{k=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^{sa}} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}^{(n_i-j_{ik}-\mathbb{k}_1+1)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2)} \\ &\frac{(n_i - n_{ik} - \mathbb{k}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{k}_1 + 1)!} \cdot \\ &\frac{(n_{ik} - n_{sa} - \mathbb{k}_2 - 1)!}{(j_{sa} - j_{ik} - 1)! \cdot (n_{ik} - j_{ik} - n_{sa} - j_{sa} - \mathbb{k}_2)!} \cdot \\ &\frac{(n_{sa} - 1)!}{(n_{sa} + j_{sa} - n - 1)! \cdot (n - j_{sa})!} \cdot \\ &\frac{(D + j_{sa} - l_{sa} - s)!}{(D + j_{sa} - n - l_{sa})! \cdot (n - s)!} - \\ &\sum_{k=1}^{(\cdot)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}^{sa}} \\ &\sum_{n_i=n+\mathbb{k}}^n \sum_{n_{ik}=n_i-j_{ik}-\mathbb{k}_1+1}^{(\cdot)} \sum_{n_{sa}=n_{ik}+j_{ik}-j_{sa}-\mathbb{k}_2}^{(\cdot)} \\ &\frac{(n_i + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - \mathbb{k}_1 - \mathbb{k}_2)!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2)! \cdot (n + 2 \cdot j_{sa} + 2 \cdot j_{sa}^{ik} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\ &\frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!} \end{aligned}$$

$$((D \geq n < n \wedge l_s = 1 \wedge l_s \leq D - n + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j_{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge$$

$$\mathbf{l}_{sa} \leq D + j_{sa} - \mathbf{n} \wedge \mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n}) \vee$$

$$(D \geq \mathbf{n} < n \wedge \mathbf{l}_s = 1 \wedge \mathbf{l}_s \leq D - \mathbf{n} + 1 \wedge$$

$$j_{sa}^{ik} \leq j_{ik} \leq j^{sa} + j_{sa}^{ik} - j_{sa} \wedge$$

$$j_{ik} + j_{sa} - j_{sa}^{ik} \leq j^{sa} \leq \mathbf{n} + j_{sa} - s \wedge$$

$$\mathbf{l}_{ik} - j_{sa}^{ik} + 1 = \mathbf{l}_s \wedge \mathbf{l}_{sa} + j_{sa}^{ik} - j_{sa} > \mathbf{l}_{ik} \wedge \mathbf{l}_i + j_{sa} - s = \mathbf{l}_{sa} \wedge$$

$$\mathbf{l}_i \leq D + s - \mathbf{n})) \wedge$$

$$(D \geq \mathbf{n} < n \wedge I = \mathbb{K} > 0 \wedge$$

$$j_{sa} \leq j_{sa}^i - 1 \wedge j_{sa}^{ik} < j_{sa} - 1 \wedge j_{sa}^s < j_{sa}^{ik} - 1$$

$$\mathbf{s}: \{j_{sa}^s, \dots, \mathbb{K}_1, j_{sa}^{ik}, \dots, \mathbb{K}_2, j_{sa}, \dots, j_{sa}^{ik}\} \wedge$$

$$s \geq 6 \wedge \mathbf{s} = \dots + \mathbb{K} \wedge$$

$$\mathbb{K}_z: z = 2 \wedge \mathbb{K} = \dots + \mathbb{K}_2) \wedge$$

$$_{fz} S_{j_{ik}, j_{sa}}^{\text{iso}} = \sum_{k=1}^{(\quad)} \sum_{(j_{ik}=j_{sa}^{ik})} \sum_{j_{sa}=j_{sa}}^{l_{sa}}$$

$$\sum_{n_i=\mathbf{n}+\mathbb{K}}^n \sum_{(n_{ik}=\mathbf{n}+\mathbb{K}_2-j_{ik}+1)}^{(n_i-j_{ik}-\mathbb{K}_1+1)} \sum_{n_{sa}=\mathbf{n}-j_{sa}+1}^{n_{ik}+j_{ik}-j_{sa}-\mathbb{K}_2}$$

$$\frac{(n_i - n_{ik} - \mathbb{K}_1 - 1)!}{(j_{ik} - 2)! \cdot (n_i - n_{ik} - j_{ik} - \mathbb{K}_1 + 1)!} \cdot$$

$$\frac{(n_{ik} - n_{sa} - \mathbb{K}_2 - 1)!}{(j^{sa} - j_{ik} - 1)! \cdot (n_{ik} + j_{ik} - n_{sa} - j^{sa} - \mathbb{K}_2)!} \cdot$$

$$\begin{aligned}
& \frac{(n_{sa} - 1)!}{(n_{sa} + j^{sa} - n - 1)! \cdot (n - j^{sa})!} \cdot \\
& \frac{(l_{sa} + j_{sa}^{ik} - l_{ik} - j_{sa})!}{(l_{sa} + j_{sa}^{ik} - j^{sa} - l_{ik})! \cdot (j^{sa} - j_{sa})!} \cdot \\
& \frac{(D + j_{sa} - l_{sa} - s)!}{(D + j^{sa} - n - l_{sa})! \cdot (n + j_{sa} - j^{sa} - l_{sa})!} \cdot \\
& \sum_{k=1}^n \sum_{(j_{ik}=j_{sa}^{ik}, j_{sa}=j_{sa})} \sum_{(j_{ik}=j_{sa}^{ik}, j_{sa}=j_{sa})} \\
& \sum_{n_i=n+\mathbb{k}}^n \sum_{(n_{ik}=n_{sa}-\mathbb{k}_1+1)}^{()} \sum_{(n_{sa}=n_{sa}+j_{ik}-j^{sa}-\mathbb{k}_2)} \\
& \frac{(n_i + 2 \cdot j^{sa} + 2 \cdot j_{sa} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa} - 2 \cdot j_{sa})!}{(n_i - n - \mathbb{k}_1 - \mathbb{k}_2) \cdot (n + 2 \cdot j^{sa} + 2 \cdot j_{sa} - 2 \cdot j_{ik} - s - 2 \cdot j_{sa})!} \cdot \\
& \frac{(D - l_i)!}{(D + s - n - l_i)! \cdot (n - s)!}
\end{aligned}$$

DİZİN

B

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.1.1.1/3-4

ilk düzgün simetrik olasılık,
2.3.2.2.1.1.1.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.1.1.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.1.2.1/3-4

ilk düzgün simetrik olasılık,
2.3.2.2.1.1.2.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.1.1.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.1.1.1/3-4

ilk düzgün simetrik olasılık,
2.3.2.2.1.1.3.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.1.1.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bir bağımsız durumlu simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.1.1.1/153-154

ilk düzgün simetrik olasılık,
2.3.2.2.1.1.1.1/162-163

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.1.1.1.1/210

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bir bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.1.2.1/153-154

ilk düzgün simetrik olasılık,
2.3.2.2.1.1.2.1/162-163

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.1.1.2.1/210

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bir bağımsız durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.1.1.1/153-154

ilk düzgün simetrik olasılık,
2.3.2.2.1.1.3.1/162-163

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.1.1.3.1/210

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.4.1.1/3-4

ilk düzgün simetrik olasılık,
2.3.2.2.1.4.1.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.1.4.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.4.2.1/3-4

ilk düzgün simetrik olasılık,
2.3.2.2.1.4.2.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.1.4.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.4.3.1/3-4

ilk düzgün simetrik olasılık,
2.3.2.2.1.4.3.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.1.4.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bağımsız durumlu

simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.1.1.1/156-157
ilk düzgün simetrik olasılık,
2.3.2.2.1.1.1.1/165
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.1.1.1.1/215

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.1.2.1/156-157
ilk düzgün simetrik olasılık,
2.3.2.2.1.1.2.1/165
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.1.1.2.1/215

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bir bağımlı-bağımsız durumlu bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.1.3.1/156-157
ilk ilk düzgün simetrik olasılık,
2.3.2.2.1.1.3.1/165
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.1.1.3.1/215

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.1.4.1/3-4
ilk düzgün simetrik olasılık,
2.3.2.2.1.1.4.1/61
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.1.1.4.1/106

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.6.2.1/3-4
ilk düzgün simetrik olasılık,
2.3.2.2.1.6.2.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.1.6.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu

bağımlı simetrisinin son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.1.6.3.1/3-4
ilk düzgün simetrik olasılık,
2.3.2.2.1.6.3.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.1.6.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin durumuna bağlı

ilk simetrik olasılık,
2.3.2.1.1.1.1.1/77
ilk düzgün simetrik olasılık,
2.3.2.2.1.1.1.1/61
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.1.1.1.1/106

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin durumuna bağlı

ilk simetrik olasılık,
2.3.2.1.1.1.2.1/77
ilk düzgün simetrik olasılık,
2.3.2.2.1.1.2.1/61
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.1.1.2.1/106

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin durumuna bağlı

ilk simetrik olasılık,
2.3.2.1.1.1.3.1/77
ilk ilk düzgün simetrik olasılık,
2.3.2.2.1.1.3.1/61
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.1.1.3.1/106

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.1.1.1/4
ilk düzgün simetrik olasılık,
2.3.2.2.2.1.1.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.1.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.1.2.1/4
ilk düzgün simetrik olasılık,
2.3.2.2.2.1.2.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.1.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.1.3.1/4
ilk düzgün simetrik olasılık,
2.3.2.2.2.1.3.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.1.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.2.1.1/5
ilk düzgün simetrik olasılık,
2.3.2.2.2.2.1.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.2.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.2.2.1/5
ilk düzgün simetrik olasılık,
2.3.2.2.2.2.2.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.2.2.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.2.3.1/4
ilk düzgün simetrik olasılık,
2.3.2.2.2.2.3.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.2.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.4.1.1/4
ilk düzgün simetrik olasılık,
2.3.2.2.2.4.1.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.4.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.4.2.1/4
ilk düzgün simetrik olasılık,
2.3.2.2.2.4.2.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.4.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.4.3.1/4
ilk düzgün simetrik olasılık,
2.3.2.2.2.4.3.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.4.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.6.1.1/4
ilk düzgün simetrik olasılık,
2.3.2.2.2.6.1.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.6.1.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.6.2.1/4
ilk düzgün simetrik olasılık,
2.3.2.2.2.6.2.1/3-4
ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.6.2.1/4

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrinin ilk ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.6.3.1/4

ilk düzgün simetrik olasılık,
2.3.2.2.2.6.3.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.6.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
simetrinin ilk ve son durumunun
bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.7.1.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.2.7.1.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.7.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
bağımsız simetrinin ilk ve son durumunun
bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.2.7.2.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.2.7.2.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.2.7.2.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrinin ilk ve son durumunun
bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.3.2.7.3.1/4

ilk düzgün simetrik olasılık,
2.3.2.2.3.2.7.3.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.3.2.7.3.1/4

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrinin ilk
ve herhangi bir durumunun bulunabileceği
olaylara göre

ilk simetrik olasılık,
2.3.2.1.3.1.1.1/4

ilk düzgün simetrik olasılık,
2.3.2.2.3.2.1.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.3.1.1.1/4-5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrinin ilk ve herhangi bir durumunun
bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.3.1.2.1/4

ilk düzgün simetrik olasılık,
2.3.2.2.3.2.2.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.3.1.2.1/4-5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrinin ilk ve herhangi bir durumunun
bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.3.1.3.1/4

ilk düzgün simetrik olasılık,
2.3.2.2.3.2.3.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.3.1.3.1/4-5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
simetrinin ilk ve herhangi bir durumunun
bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.3.2.1.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.3.2.1.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.3.2.1.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımsız simetrinin ilk ve herhangi bir
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.3.2.2.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.3.2.2.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.3.2.2.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrinin ilk ve herhangi bir
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.3.2.3.1/4

ilk düzgün simetrik olasılık,
2.3.2.2.3.2.3.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.3.2.3.1/4-5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrinin
herhangi iki durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.4.1.1.1/4

ilk düzgün simetrik olasılık,

2.3.2.2.4.1.1.1/3-4

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.4.1.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin herhangi iki durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.4.1.2.1/4

ilk düzgün simetrik olasılık,

2.3.2.2.4.1.2.1/3-4

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.4.1.2.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin herhangi iki durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.4.1.3.1/4

ilk düzgün simetrik olasılık,

2.3.2.2.4.1.3.1/3-4

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.4.1.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin herhangi iki durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,

2.3.2.1.4.1.1.1/701-702

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin herhangi iki durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,

2.3.2.1.4.1.2.1/701-702

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin herhangi iki durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,

2.3.2.1.4.1.3.1/701-702

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,

2.3.2.1.5.1.1.1/5

ilk düzgün simetrik olasılık,

2.3.2.2.5.1.1.1/3-4

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.5.1.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,

2.3.2.1.5.1.2.1/5

ilk düzgün simetrik olasılık,

2.3.2.2.5.1.2.1/3-4

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.5.1.2.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,

2.3.2.1.5.1.3.1/5

ilk düzgün simetrik olasılık,

2.3.2.2.5.1.3.1/3-4

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.5.1.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,

2.3.2.1.5.2.1.1/6-7

ilk düzgün simetrik olasılık,

2.3.2.2.5.2.1.1/3-4

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.5.2.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,

2.3.2.1.5.2.2.1/6-7

ilk düzgün simetrik olasılık,

2.3.2.2.5.2.2.1/3-4

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.5.2.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrisinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,

2.3.2.1.5.2.3.1/5

ilk düzgün simetrik olasılık,

2.3.2.2.5.2.3.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.5.2.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

ilk simetrik olasılık, 2.3.2.1.8.1.1.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.8.1.1.1/5

dizilimsiz bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

ilk simetrik olasılık, 2.3.2.1.8.1.2.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.8.1.2.1/5

dizilimsiz bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

ilk simetrik olasılık, 2.3.2.1.8.1.3.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.8.1.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

ilk simetrik olasılık, 2.3.2.1.6.2.1.1/6-7

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.8.2.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

ilk simetrik olasılık, 2.3.2.1.8.2.2.1/6-7

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.8.2.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrinin ilk ve herhangi iki durumunun bulunabileceği olaylara göre herhangi iki duruma bağlı

ilk simetrik olasılık, 2.3.2.1.8.2.3.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.8.2.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.6.1.1.1/5

ilk düzgün simetrik olasılık, 2.3.2.2.6.1.1.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.6.1.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.6.1.2.1/5

ilk düzgün simetrik olasılık, 2.3.2.2.6.1.2.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.6.1.2.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.6.1.3.1/5

ilk düzgün simetrik olasılık, 2.3.2.2.6.1.3.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.6.1.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.6.2.1.1/6

ilk düzgün simetrik olasılık, 2.3.2.2.6.2.1.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.6.2.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrinin ilk herhangi bir ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.6.2.2.1/6

ilk düzgün simetrik olasılık,
2.3.2.2.6.2.2.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.2.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumda
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.6.2.3.1/4-5

ilk düzgün simetrik olasılık,
2.3.2.2.6.2.3.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.2.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumda
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.6.4.1.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.6.4.1.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.4.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumda
bağımsız simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.6.4.2.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.6.4.2.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.4.2.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bir bağımsız durumda
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.6.4.3.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.6.4.3.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.4.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumda
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.6.6.1.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.6.6.1.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.6.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumda
bağımsız simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.6.6.2.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.6.6.2.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.6.2.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumda
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.6.6.3.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.6.6.3.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.6.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumda
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.6.7.1.1/6

ilk düzgün simetrik olasılık,
2.3.2.2.6.7.1.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.7.1.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumda
bağımsız simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.6.7.2.1/6

ilk düzgün simetrik olasılık,
2.3.2.2.6.7.2.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.7.2.1/8

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumda
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.6.7.3.1/4-5

ilk düzgün simetrik olasılık,
2.3.2.2.6.7.3.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.6.7.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrinin ilk
herhangi bir ve son durumunun
bulunabileceği olaylara göre herhangi bir
ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.1.1.1/5

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.1.1.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.1.2.1/5

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.1.2.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.1.3.1/5

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.1.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
simetrinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.2.1.1/6

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.2.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımsız simetrinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.2.2.1/6

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.2.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.2.3.1/4-5

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.2.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
simetrinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.4.1.1/5

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.4.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımsız simetrinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.4.2.1/5

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.4.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımlı simetrinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.4.3.1/5

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.4.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
simetrinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.6.1.1/5

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.6.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımsız simetrinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.6.2.1/5

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.6.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı-bağımsız durumlu
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.6.3.1/5

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.6.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.7.1.1/6

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.7.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
bağımsız simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.7.2.1/6

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.7.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımsız durumlu
bağımlı simetrisinin ilk herhangi bir ve son
durumunun bulunabileceği olaylara göre
herhangi bir ve son duruma bağlı

ilk simetrik olasılık,
2.3.2.1.9.7.3.1/4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.9.7.3.1/5

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu simetrisinin ilk
herhangi iki ve son durumunun
bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.7.1.1.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.7.1.1.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.7.1.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımsız
simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.7.1.2.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.7.1.2.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.7.1.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımlı durumlu bağımlı
simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.7.1.3.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.7.1.3.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.7.1.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.7.2.1.1/7

ilk düzgün simetrik olasılık,
2.3.2.2.7.2.1.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.7.2.1.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımsız simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.7.2.2.1/7

ilk düzgün simetrik olasılık,
2.3.2.2.7.2.2.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.7.2.2.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı
dizilimsiz bağımsız-bağımlı durumlu
bağımlı simetrisinin ilk herhangi iki ve son
durumunun bulunabileceği olaylara göre

ilk simetrik olasılık,
2.3.2.1.7.2.3.1/5

ilk düzgün simetrik olasılık,
2.3.2.2.7.2.3.1/3-4

ilk düzgün olmayan simetrik
olasılık, 2.3.2.3.7.2.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.7.4.1.1/5

ilk düzgün simetrik olasılık, 2.3.2.2.7.4.1.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.7.4.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.7.4.2.1/5

ilk düzgün simetrik olasılık, 2.3.2.2.7.4.2.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.7.4.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.7.4.3.1/5

ilk düzgün simetrik olasılık, 2.3.2.2.7.4.3.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.7.4.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.7.6.1.1/5

ilk düzgün simetrik olasılık, 2.3.2.2.7.6.1.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.7.6.1.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.7.6.2.1/5

ilk düzgün simetrik olasılık, 2.3.2.2.7.6.2.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.7.6.2.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.7.6.3.1/5

ilk düzgün simetrik olasılık, 2.3.2.2.7.6.3.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.7.6.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bir bağımsız durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.7.7.1.1/7

ilk düzgün simetrik olasılık, 2.3.2.2.7.7.1.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.7.7.1.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bir bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.7.7.2.1/7

ilk düzgün simetrik olasılık, 2.3.2.2.7.7.2.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.7.7.2.1/10-11

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bir bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre

ilk simetrik olasılık, 2.3.2.1.7.7.3.1/5

ilk düzgün simetrik olasılık, 2.3.2.2.7.7.3.1/3-4

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.7.7.3.1/7

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.10.1.1.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.1.1.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.1.2.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.1.2.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.1.3.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.1.3.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.2.1.1/7

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.2.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.2.2.1/7

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.2.2.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.2.3.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.2.3.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.4.1.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.4.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.4.2.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.4.2.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.4.3.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.4.3.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.6.1.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.6.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.6.2.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.6.2.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumlu bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.10.6.3.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.6.3.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumda simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.10.7.1.1/7

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.7.1.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.10.7.2.1/7

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.7.2.1/7-8

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi bir ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.10.7.3.1/5

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.10.7.3.1/5-6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumda simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.11.1.1.1/6

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.11.1.1.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.11.1.2.1/6

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.11.1.2.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.11.1.3.1/6

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.11.1.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumda simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.11.2.1.1/8-9

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.11.2.1.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.11.2.2.1/9

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.11.2.2.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımlı durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.11.2.3.1/6

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.11.2.3.1/6

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.11.4.1.1/6

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.11.4.1.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık, 2.3.2.1.11.4.2.1/6

ilk düzgün olmayan simetrik olasılık, 2.3.2.3.11.4.2.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bir bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.11.4.3.1/6

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.11.4.3.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.11.6.1.1/6

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.11.6.1.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.11.6.2.1/6

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.11.6.2.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı-bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.11.6.3.1/6

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.11.6.3.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.11.7.1.1/8-9

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.11.7.1.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumda bağımsız simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.11.7.2.1/8-9

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.11.7.2.1/9

Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımsız-bağımsız durumda bağımlı simetrisinin ilk herhangi iki ve son durumunun bulunabileceği olaylara göre herhangi iki ve son durumuna bağlı

ilk simetrik olasılık,

2.3.2.1.11.7.3.1/6

ilk düzgün olmayan simetrik

olasılık, 2.3.2.3.11.7.3.1/6

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 dağılımlardan, bağımsız olasılıklı durumla başlayıp ilk bağımlı durumu bağımlı olasılıklı dağılımın ilk bağımlı durumu olan ve bağımlı olasılıklı dağılımın ilk bağımlı durumuyla başlayan dağılımlarda, simetrisinin herhangi iki durumuna bağlı ilk düzgün olmayan simetrik olasılığın, tanım ve eşitliklerinden oluşmaktadır.

VDOİHİ Bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz bağımlı durumu simetrisinin herhangi iki durumuna bağlı ilk düzgün olmayan simetrik olasılık kitabında, bağımlı ve bir bağımsız olasılıklı farklı dizilimsiz dağılımlardan, bağımsız olasılıklı durumla başlayıp ilk bağımlı durumu bağımlı olasılıklı dağılımın ilk bağımlı durumu olan ve bağımlı olasılıklı dağılımın ilk bağımlı durumuyla başlayan dağılımlarda, simetrisinin herhangi iki durumuna bağlı ilk düzgün olmayan simetrik olasılığın, tanım ve eşitlikleri verilmektedir.

VDOİHİ’nin diğer ciltlerinde olduğu gibi bu ciltte de verilere eşitlikler, olasılık tablolarından elde edilen verilerle üretilmiştir. Diğer eşitlikler ise aynı eşitliklerden teorik yöntemle üretilmiştir. Eşitlik ve tanımların üretilmesinde tek kaynak kullanılmıştır.