

$$\begin{aligned}
& \frac{\langle 26 \rangle [13] (s_{124} - s_{134}) (11/4 \langle 24 \rangle [25] - 7/2 [35] \langle 34 \rangle + 3/4 \langle 14 \rangle [15])}{\langle 2 | 1 + 4 | 3 \rangle^3} + \\
& \frac{\langle 46 \rangle \langle 26 \rangle \langle 24 \rangle (s_{124} - s_{134}) (-2 [13] [24] + 1 [12] [34])}{\langle 56 \rangle \langle 2 | 1 + 4 | 3 \rangle^3} + \\
& \frac{[13] \langle 26 \rangle (1 \langle 34 \rangle \langle 14 \rangle [13] [45] \dots \langle 5 \text{ terms} \rangle \dots + 7/2 \langle 24 \rangle^2 [24] [25])}{\langle 2 | 1 + 4 | 3 \rangle^3} + \\
& \frac{\langle 24 \rangle \langle 26 \rangle^2 [24] [23] (s_{13} - s_{24}) (1 \langle 13 \rangle [13] - 1/2 \langle 24 \rangle [24])}{\langle 56 \rangle \langle 1 | 2 + 3 | 4 \rangle \langle 2 | 1 + 4 | 3 \rangle^3} + \\
& \frac{-1/2 [13]^2 \langle 26 \rangle^2 [23] (s_{13} - s_{24}) (13)^2}{\langle 56 \rangle \langle 1 | 2 + 3 | 4 \rangle \langle 2 | 1 + 4 | 3 \rangle^3} + \\
& \frac{\langle 26 \rangle \langle 24 \rangle (-1 [13] \langle 14 \rangle \langle 16 \rangle [12] [14] \dots \langle 3 \text{ terms} \rangle \dots - 1/2 \langle 34 \rangle [13] [23] \langle 36 \rangle [34])}{\langle 56 \rangle \langle 2 | 1 + 4 | 3 \rangle^3} + \\
& \frac{[13] \langle 26 \rangle \langle 23 \rangle [23] \langle 46 \rangle (-1/2 \langle 13 \rangle [13] + 1/2 [23] \langle 23 \rangle)}{\langle 56 \rangle \langle 2 | 1 + 4 | 3 \rangle^3} + \\
& \frac{1/2 \langle 24 \rangle [13] (s_{124} - s_{134}) \langle 26 \rangle [25] \langle 3 | 1 + 4 | 2 \rangle}{\langle 2 | 1 + 4 | 3 \rangle^2 \Delta_{14|23|56}} + \\
& \frac{[13] \langle 3 | 1 + 4 | 2 \rangle (s_{124} - s_{134}) (1/4 [35] \langle 23 \rangle \langle 46 \rangle + 3/8 \langle 26 \rangle \langle 14 \rangle [15])}{\langle 2 | 1 + 4 | 3 \rangle^2 \Delta_{14|23|56}} + \\
& \frac{(s_{13} - s_{24}) \langle 46 \rangle (-1 \langle 26 \rangle \langle 24 \rangle [24]^2 - 9/4 \langle 26 \rangle [14] \langle 14 \rangle [24] + 1 \langle 26 \rangle \langle 13 \rangle [13] [24] + 9/4 \langle 16 \rangle [14] \langle 13 \rangle [13])}{\langle 56 \rangle \langle 1 | 2 + 3 | 4 \rangle \langle 2 | 1 + 4 | 3 \rangle^2} + \\
& \frac{[13] (s_{13} - s_{24}) \langle 36 \rangle (9/4 \langle 16 \rangle \langle 13 \rangle [13] - 9/4 \langle 26 \rangle \langle 14 \rangle [24])}{\langle 56 \rangle \langle 1 | 2 + 3 | 4 \rangle \langle 2 | 1 + 4 | 3 \rangle^2} + \\
& \frac{\langle 46 \rangle (3/4 \langle 24 \rangle [13] [24] \langle 36 \rangle \dots \langle 13 \text{ terms} \rangle \dots + 9/4 \langle 34 \rangle [13] \langle 36 \rangle [34])}{\langle 56 \rangle \langle 2 | 1 + 4 | 3 \rangle^2} + \\
& \frac{[13] \langle 36 \rangle^2 (-17/4 \langle 14 \rangle [13] - 15/4 [23] \langle 24 \rangle)}{\langle 56 \rangle \langle 2 | 1 + 4 | 3 \rangle^2} + \\
& \frac{3/4 \langle 34 \rangle [35] \langle 23 \rangle [12] [24] \langle 46 \rangle \dots \langle 11 \text{ terms} \rangle \dots - 9/8 [13] \langle 14 \rangle [12] \langle 36 \rangle \langle 13 \rangle [15]}{\langle 2 | 1 + 4 | 3 \rangle \Delta_{14|23|56}} + \\
& \frac{[45] (3/4 \langle 34 \rangle \langle 24 \rangle \langle 23 \rangle [24] [25] \dots \langle 8 \text{ terms} \rangle \dots - 1/4 \langle 34 \rangle \langle 12 \rangle [12] \langle 13 \rangle [15])}{\langle 23 \rangle [56] \langle 1 | 2 + 3 | 4 \rangle \langle 2 | 1 + 4 | 3 \rangle} + \\
& \frac{2 \langle 34 \rangle [35] [14] \langle 13 \rangle^2 [15]}{\langle 23 \rangle [56] \langle 1 | 2 + 3 | 4 \rangle \langle 2 | 1 + 4 | 3 \rangle} + \\
& \frac{[25] \langle 13 \rangle (3/4 [14] \langle 24 \rangle \langle 23 \rangle [25] + 3/2 [15] \langle 13 \rangle [13] \langle 23 \rangle + 5/4 \langle 13 \rangle \langle 24 \rangle [15] [14] - 1/4 \langle 34 \rangle \langle 12 \rangle [15] [14])}{\langle 23 \rangle [56] \langle 1 | 2 + 3 | 4 \rangle \langle 2 | 1 + 4 | 3 \rangle} + \\
& \frac{1 \langle 13 \rangle^3 [13] [15]^2}{\langle 23 \rangle [56] \langle 1 | 2 + 3 | 4 \rangle \langle 2 | 1 + 4 | 3 \rangle} + \\
& \frac{1 \langle 34 \rangle^2 [15]^2 (s_{12} - s_{34})}{\langle 23 \rangle [56] \langle 2 | 1 + 4 | 3 \rangle \langle 4 | 2 + 3 | 1 \rangle} + \\
& (123456 \rightarrow \overline{432165}) + \\
& \frac{-6 \langle 24 \rangle [13] \langle 26 \rangle [35] \Delta_{14|23|56}}{\langle 2 | 1 + 4 | 3 \rangle^4} + \\
& \frac{-3/8 \langle 6 | 1 + 4 | 5 \rangle \langle 24 \rangle [13] (\langle 3 | 5 + 6 | 3 \rangle + \langle 2 | 5 + 6 | 2 \rangle) \langle 3 | 1 + 4 | 2 \rangle}{\langle 2 | 1 + 4 | 3 \rangle^2 \Delta_{14|23|56}} + \\
& \frac{-3/32 \langle 6 | 1 + 4 | 5 \rangle \langle 4 | 2 + 3 | 1 \rangle (s_{12} + s_{13} + s_{24} + s_{34}) (\langle 3 | 5 + 6 | 3 \rangle + \langle 2 | 5 + 6 | 2 \rangle) \langle 3 | 1 + 4 | 2 \rangle}{\langle 2 | 1 + 4 | 3 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-9/32 (s_{124} - s_{134}) \langle 4 | 2 + 3 | 1 \rangle (s_{12} + s_{13} + s_{24} + s_{34}) \langle 6 | 1 + 2 | 5 \rangle \langle 3 | 1 + 4 | 2 \rangle}{\langle 2 | 1 + 4 | 3 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-9/32 (s_{124} - s_{134}) (s_{12} + s_{13} + s_{24} + s_{34}) (s_{13} - s_{24}) \langle 46 \rangle [15] \langle 3 | 1 + 4 | 2 \rangle}{\langle 2 | 1 + 4 | 3 \rangle \Delta_{14|23|56}^2} + \\
& \frac{9/16 \langle 4 | 2 + 3 | 1 \rangle (s_{12} + s_{13} + s_{24} + s_{34}) [25] \langle 36 \rangle \langle 3 | 1 + 4 | 2 \rangle}{\Delta_{14|23|56}^2} + \\
& \frac{9/16 (s_{12} + s_{13} + s_{24} + s_{34}) [15] \langle 3 | 1 + 4 | 2 \rangle^2 \langle 46 \rangle}{\Delta_{14|23|56}^2}
\end{aligned}$$