

$$\begin{aligned}
& \frac{[35]\langle 24 \rangle [3]1+4[2](1/2[12]\langle 26 \rangle - 2\langle 6|2+5|1])}{\langle 56 \rangle [56] \langle 2|1+4|3 \rangle \Delta_{32|14|56}} + \\
& \frac{-5/8(34)[35]\langle 6|2+5|1 \rangle (s_{134} - s_{124})}{\langle 56 \rangle [56] \langle 2|1+4|3 \rangle \Delta_{32|14|56}} + \\
& \frac{\langle 3|1+4|2 \rangle (s_{132} - s_{324})(1/4[13]\langle 14 \rangle \langle 26 \rangle [45] - 1/4\langle 23 \rangle [34][35]\langle 46 \rangle)}{\langle 56 \rangle [56] \langle 1|2+3|4 \rangle \langle 2|1+4|3 \rangle \Delta_{32|14|56}} + \\
& \frac{[34](s_{134} - s_{124})(s_{132} - s_{324})(-5/16\langle 14 \rangle [15]\langle 36 \rangle + 5/16\langle 23 \rangle [25]\langle 46 \rangle)}{\langle 56 \rangle [56] \langle 1|2+3|4 \rangle \langle 2|1+4|3 \rangle \Delta_{32|14|56}} + \\
& \frac{5/4\langle 23 \rangle [25][34]\langle 46 \rangle + 5/4[13]\langle 14 \rangle \langle 36 \rangle [45] - 5/4\langle 14 \rangle [14][35]\langle 36 \rangle + 1[12]\langle 13 \rangle \langle 26 \rangle [35]}{\langle 56 \rangle [56] \langle 1|2+3|4 \rangle \langle 2|1+4|3 \rangle} + \\
& \frac{1[25]\langle 36 \rangle}{\langle 56 \rangle [56] \langle 1|2+3|4 \rangle} + \\
& \frac{3/2[15]\langle 46 \rangle}{\langle 56 \rangle [56] \langle 2|1+4|3 \rangle} + \\
& \frac{(s_{13} - s_{24})(1/4[25]\langle 26 \rangle - 1/4[45]\langle 46 \rangle)}{\langle 56 \rangle [56] \langle 1|2+3|4 \rangle \langle 2|1+4|3 \rangle} + \\
& (123456 \rightarrow \overline{432165}) + \\
& \frac{1/2\langle 13 \rangle [15]^2 \langle 34 \rangle}{\langle 23 \rangle [56] \langle 1|2+3|1 \rangle \langle 1|5+6|1 \rangle} + \\
& \frac{5/2\langle 13 \rangle [15]\langle 3|1+2|5 \rangle}{\langle 23 \rangle [56] \langle 1|2+3|1 \rangle \langle 1|2+3|4 \rangle} + \\
& \frac{1/2[12]\langle 13 \rangle [15]\langle 16 \rangle}{\langle 1|2+3|1 \rangle \langle 1|5+6|1 \rangle \langle 1|2+3|4 \rangle} + \\
& \frac{2[12]\langle 16 \rangle^2 [56]}{\langle 1|5+6|1 \rangle \langle 1|2+4|3 \rangle \langle 1|2+3|4 \rangle} + \\
& \frac{1/2[15]^2 \langle 34 \rangle^2}{\langle 23 \rangle [56] \langle 1|5+6|1 \rangle \langle 4|2+3|1 \rangle} + \\
& \frac{-1[13]\langle 16 \rangle \langle 34 \rangle [35]}{\langle 1|2+4|3 \rangle \langle 2|1+4|3 \rangle \langle 3|5+6|3 \rangle} + \\
& \frac{-1\langle 34 \rangle [35]\langle 3|1+6|5 \rangle}{\langle 23 \rangle [56] \langle 1|2+4|3 \rangle \langle 3|5+6|3 \rangle} + \\
& \frac{15/2[14][24]\langle 46 \rangle^2}{[34]\langle 56 \rangle \langle 4|2+3|4 \rangle \langle 4|5+6|4 \rangle} + \\
& \frac{15/4[12][14]\langle 34 \rangle \langle 46 \rangle^2}{\langle 56 \rangle \langle 4|2+3|1 \rangle \langle 4|2+3|4 \rangle \langle 4|5+6|4 \rangle} + \\
& \frac{9/4\langle 23 \rangle [24]\langle 34 \rangle [45]\langle 46 \rangle}{\langle 23 \rangle \langle 1|2+3|4 \rangle \langle 4|2+3|4 \rangle \langle 4|5+6|4 \rangle} + \\
& \frac{-13/4[14][15]\langle 34 \rangle^2 \langle 46 \rangle}{\langle 23 \rangle \langle 4|2+3|1 \rangle \langle 4|2+3|4 \rangle \langle 4|5+6|4 \rangle} + \\
& \frac{-15/2[24][45]\langle 46 \rangle \langle 56 \rangle}{[34]\langle 56 \rangle \langle 1|2+3|4 \rangle \langle 4|5+6|4 \rangle} + \\
& \frac{-25/4\langle 34 \rangle [34][45]\langle 3|1+2|5 \rangle}{\langle 23 \rangle [34][56] \langle 1|2+3|4 \rangle \langle 4|5+6|4 \rangle} + \\
& \frac{-93/32\langle 24 \rangle [34][5]1+3[6] + 45/64\langle 23 \rangle [23]\langle 26 \rangle [35] + 61/32\langle 24 \rangle [45]\langle 6|2+4|3 \rangle}{\langle 23 \rangle [34] \langle 1|2+4|3 \rangle \langle 2|1+4|3 \rangle} + \\
& \frac{[35](-109/64\langle 23 \rangle^2 [23][35] \dots \langle 3 \text{ terms} \rangle \dots + 61/32\langle 24 \rangle^2 [24][45])}{\langle 23 \rangle [34][56] \langle 1|2+4|3 \rangle \langle 2|1+4|3 \rangle} + \\
& \frac{[23]\langle 26 \rangle (1[23]\langle 26 \rangle - 1[34]\langle 46 \rangle)}{[34]\langle 56 \rangle \langle 1|2+4|3 \rangle \langle 2|1+4|3 \rangle} + \\
& \frac{-1/2[14][15]\langle 34 \rangle \langle 46 \rangle}{\langle 23 \rangle [34]\langle 56 \rangle [56] \langle 4|2+3|1 \rangle} + \\
& \frac{[15](1/2\langle 26 \rangle \langle 3|5+6|3 \rangle + 1\langle 24 \rangle [45]\langle 56 \rangle)}{\langle 23 \rangle [34]\langle 56 \rangle [56] \langle 2|1+4|3 \rangle} + \\
& \frac{141/64[24][25]\langle 26 \rangle + 109/64[23]\langle 36 \rangle [45] + 2[25][45]\langle 56 \rangle + 125/32[24][45]\langle 46 \rangle}{[34]\langle 56 \rangle [56] \langle 1|2+3|4 \rangle} + \\
& \frac{-77/64[12]\langle 26 \rangle [35]}{[34]\langle 56 \rangle [56] \langle 2|1+4|3 \rangle} + \\
& \frac{141/64[24]\langle 26 \rangle [35](s_{13} - s_{24})}{[34]\langle 56 \rangle [56] \langle 1|2+3|4 \rangle \langle 2|1+4|3 \rangle}
\end{aligned}$$