

$$\begin{aligned}
& \frac{[35]\langle 24\rangle\langle 3|1+4|2\rangle(1/2|12\rangle\langle 26\rangle-2\langle 6|2+5|1\rangle)}{\langle 56\rangle[56]\langle 2|1+4|3\rangle\Delta_{32|14|56}} + \\
& \frac{-5/8\langle 34\rangle[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\rangle\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}$$