

$$\begin{aligned}
& \frac{1[12][15]\langle 26 \rangle}{[34]\langle 56 \rangle[56]\langle 2|3+4|1 \rangle} + \\
& \frac{49/6\langle 13 \rangle[25]\langle 46 \rangle}{\langle 14 \rangle\langle 1|2+3|1 \rangle\langle 1|2+3|4 \rangle} + \\
& \frac{14/3\langle 13 \rangle\langle 46 \rangle\langle 6|1+5|2 \rangle}{\langle 14 \rangle\langle 56 \rangle\langle 1|2+3|1 \rangle\langle 1|2+3|4 \rangle} + \\
& \frac{77/6\langle 13 \rangle[25]\langle 4|1+6|5 \rangle}{\langle 14 \rangle[56]\langle 1|2+3|1 \rangle\langle 1|2+3|4 \rangle} + \\
& \frac{1[35]\langle 46 \rangle\langle 1|3+4|2 \rangle}{\langle 14 \rangle[34]\langle 56 \rangle[56]\langle 1|2+4|3 \rangle} + \\
& \frac{7/18\langle 13 \rangle^2\langle 46 \rangle^2[56]}{\langle 14 \rangle^2\langle 23 \rangle\langle 56 \rangle[56]\langle 1|2+3|4 \rangle} + \\
& \frac{1/2\langle 6|1+3|5 \rangle}{\langle 12 \rangle[34]\langle 56 \rangle[56]} + \\
& \frac{1\langle 13 \rangle[35]\langle 46 \rangle}{\langle 12 \rangle\langle 14 \rangle[34]\langle 56 \rangle[56]} + \\
& \frac{-7/8[12]\langle 13 \rangle\langle 16 \rangle\langle 46 \rangle(s_{23}-s_{56})}{\langle 14 \rangle\langle 56 \rangle\langle 1|2+3|4 \rangle\Delta_{23|14|56}} + \\
& \frac{-7/8\langle 13 \rangle[23]\langle 34 \rangle[45]\langle 46 \rangle(s_{23}-s_{56})}{\langle 14 \rangle\langle 56 \rangle[56]\langle 1|2+3|4 \rangle\Delta_{23|14|56}} + \\
& \frac{7/3\langle 36 \rangle^2 s_{234}(s_{14}-s_{56})}{\langle 23 \rangle\langle 56 \rangle\langle 1|2+3|4 \rangle\Delta_{23|14|56}} + \\
& \frac{7/8\langle 34 \rangle\langle 36 \rangle[45]s_{234}(s_{14}-s_{56})}{\langle 23 \rangle\langle 56 \rangle[56]\langle 1|2+3|4 \rangle\Delta_{23|14|56}} + \\
& \frac{-28/9\langle 13 \rangle\langle 36 \rangle\langle 4|1+6|5 \rangle}{\langle 14 \rangle\langle 23 \rangle\langle 56 \rangle[56]\langle 1|2+3|4 \rangle} + \\
& \frac{-7/2\langle 13 \rangle\langle 34 \rangle[45]\langle 46 \rangle}{\langle 14 \rangle\langle 23 \rangle\langle 56 \rangle[56]\langle 1|2+3|4 \rangle} + \\
& \frac{112/9\langle 36 \rangle^2}{\langle 23 \rangle\langle 56 \rangle\langle 1|2+3|4 \rangle} + \\
& \frac{7/18\langle 34 \rangle\langle 36 \rangle[45]}{\langle 23 \rangle\langle 56 \rangle[56]\langle 1|2+3|4 \rangle} + \\
& (123456 \rightarrow -\overline{432165})+ \\
& \frac{77/24[12]\langle 34 \rangle[45]\langle 46 \rangle \dots \langle 3 \text{ terms} \rangle \dots -49/12[12]\langle 23 \rangle[25]\langle 46 \rangle}{\langle 56 \rangle[56]\Delta_{23|14|56}} + \\
& \frac{-175/24[12]\langle 14 \rangle\langle 36 \rangle[45] \dots \langle 7 \text{ terms} \rangle \dots +35/4[23]\langle 34 \rangle\langle 36 \rangle[45]}{\langle 1|2+3|4 \rangle\Delta_{23|14|56}} + \\
& \frac{\langle 4|2+3|1 \rangle(49/6\langle 12 \rangle[24][25]\langle 36 \rangle \dots \langle 4 \text{ terms} \rangle \dots +7/4\langle 14 \rangle[24]\langle 36 \rangle[45])}{\langle 56 \rangle[56]\langle 1|2+3|4 \rangle\Delta_{23|14|56}} + \\
& \frac{77/24\langle 12 \rangle^2[12]^2[25]\langle 36 \rangle \dots \langle 14 \text{ terms} \rangle \dots -77/24\langle 23 \rangle[23]^2\langle 34 \rangle\langle 36 \rangle[45]}{\langle 56 \rangle[56]\langle 1|2+3|4 \rangle\Delta_{23|14|56}}
\end{aligned}$$