

$$\begin{aligned}
& \frac{-2/3[15]\langle 24 \rangle \langle 6|1+5|2|}{\langle 23 \rangle^2 \langle 56 \rangle [56] s_{234}} + \\
& \frac{6[12]\langle 24 \rangle^2 [25]^2 \langle 1|5+6|1|}{\langle 23 \rangle \langle 34 \rangle [56] \langle 2|5+6|2|}^3 + \\
& \frac{1[12]\langle 24 \rangle [25] \langle 26 \rangle \langle 1|5+6|1| \langle 4|2+3|1|}{\langle 23 \rangle \langle 34 \rangle \langle 56 \rangle [56] \langle 2|3+4|1| \langle 2|5+6|2|}^2 + \\
& \frac{4[12][15]\langle 24 \rangle^2 [25] \langle 1|5+6|1|}{\langle 23 \rangle \langle 34 \rangle [56] \langle 2|3+4|1| \langle 2|5+6|2|}^2 + \\
& \frac{2[23]\langle 24 \rangle [25]^2 \langle 34 \rangle \langle 1|5+6|1|}{\langle 23 \rangle \langle 34 \rangle [56] \langle 1|3+4|2| \langle 2|5+6|2|}^2 + \\
& \frac{-1[12]\langle 14 \rangle \langle 24 \rangle [25]^2 \langle 1|5+6|1|}{\langle 23 \rangle \langle 34 \rangle [56] \langle 1|3+4|2| \langle 2|5+6|2|}^2 + \\
& \frac{-1[15]^2 \langle 24 \rangle \langle 2|3+4|2| \langle 4|2+3|1|}{\langle 23 \rangle \langle 34 \rangle [56] \langle 2|3+4|1|}^2 \langle 2|5+6|2| + \\
& \frac{(1|5+6|1| \langle 24 \rangle [15] (-2[12]\langle 14 \rangle \langle 26 \rangle - 2\langle 23 \rangle [23] \langle 46 \rangle - 1\langle 24 \rangle [24] \langle 46 \rangle + 1[23] \langle 24 \rangle \langle 36 \rangle))}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle \langle 56 \rangle [56] \langle 2|3+4|1| \langle 2|5+6|2|} + \\
& \frac{1\langle 14 \rangle \langle 24 \rangle [25]^2 \langle 1|5+6|1|}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle [56] \langle 1|3+4|2| \langle 2|5+6|2|} + \\
& \frac{1\langle 24 \rangle [25] \langle 46 \rangle \langle 1|5+6|1|}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle \langle 56 \rangle [56] \langle 2|5+6|2|} + \\
& \frac{-1[12]\langle 14 \rangle [15] \langle 16 \rangle \langle 24 \rangle}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle \langle 56 \rangle [56] \langle 2|5+6|2|} + \\
& \frac{1/3[15]^2 \langle 24 \rangle^2 (s_{234} + s_{134} - s_{34})}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle [56] \langle 2|3+4|1|}^2 + \\
& \frac{1/3[15]^2 \langle 24 \rangle}{\langle 23 \rangle^2 [56] \langle 2|3+4|1|} + \\
& \frac{3\langle 24 \rangle \langle 46 \rangle \langle 6|2+5|1|}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle \langle 56 \rangle \langle 2|3+4|1|} + \\
& \frac{-3[15] \langle 24 \rangle \langle 46 \rangle (s_{12} - s_{34})}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle \langle 56 \rangle [56] \langle 2|3+4|1|} + \\
& \frac{-2/3[15] \langle 24 \rangle \langle 46 \rangle [56]}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle [56] \langle 2|3+4|1|} + \\
& \frac{-1/3[13][15] \langle 34 \rangle \langle 46 \rangle}{\langle 23 \rangle^2 \langle 56 \rangle [56] \langle 4|2+3|1|} + \\
& \frac{1/3\langle 6|1+5|2| \langle 2|1+3|5|}{\langle 23 \rangle^2 \langle 56 \rangle [56] \langle 1|2+3|4|} + \\
& \frac{1/3[15]^2}{[14] \langle 23 \rangle^2 [56]} + \\
& \frac{1/3[15] \langle 46 \rangle}{\langle 23 \rangle^2 \langle 56 \rangle [56]} + \\
& \frac{-1\langle 14 \rangle \langle 46 \rangle \langle 6|1+5|2|}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle \langle 56 \rangle \langle 1|3+4|2|} + \\
& \frac{1\langle 14 \rangle [25] [34] \langle 46 \rangle}{\langle 12 \rangle \langle 23 \rangle \langle 56 \rangle [56] \langle 1|3+4|2|} + \\
& \frac{-1\langle 14 \rangle [23] [25] \langle 36 \rangle}{\langle 13 \rangle \langle 23 \rangle \langle 56 \rangle [56] \langle 1|3+4|2|} + \\
& \frac{2\langle 16 \rangle [23] [34] [35]}{\langle 13 \rangle \langle 23 \rangle \langle 56 \rangle [56] \langle 1|2+4|3|} + \\
& \frac{-1\langle 1|2+3|5| \langle 6|1+5|2|}{\langle 13 \rangle \langle 23 \rangle \langle 56 \rangle [56] \langle 1|2+3|4|} + \\
& \frac{19/9\langle 46 \rangle^2}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle \langle 56 \rangle} + \\
& \frac{\langle 46 \rangle (3\langle 24 \rangle [25] + 1\langle 34 \rangle [35])}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle \langle 56 \rangle [56]} + \\
& \frac{-1[25] \langle 46 \rangle}{\langle 13 \rangle \langle 23 \rangle \langle 56 \rangle [56]}
\end{aligned}$$