

$$\begin{aligned}
& \frac{1/8[14]\langle 34 \rangle \langle 36 \rangle \langle 4|1+6|5 \rangle \langle s_{14}-s_{56} \rangle}{\langle 23 \rangle \Delta_{23|14|56}^2} + \\
& \frac{1/8[23]\langle 36 \rangle \langle 46 \rangle \langle 3|2+4|1 \rangle \langle s_{14}-s_{23} \rangle}{\langle 56 \rangle \Delta_{23|14|56}^2} + \\
& (123456 \rightarrow \overline{432165}) + \\
& \frac{-2/3[12]\langle 13 \rangle \langle 14 \rangle [15]^2}{[56]\langle 1|2+3|1 \rangle^2 s_{234}} + \\
& \frac{5/9[12]\langle 13 \rangle [15]\langle 56 \rangle \langle 1|2+3|5 \rangle}{(1|2+3|1|^2 \langle 1|2+3|4 \rangle s_{234}} + \\
& \frac{5/3\langle 13 \rangle [15]^2 \langle 34 \rangle}{\langle 23 \rangle [56]\langle 1|2+3|1 \rangle s_{234}} + \\
& \frac{5/9[12]\langle 13 \rangle [15]\langle 16 \rangle}{\langle 1|2+3|1 \rangle \langle 1|2+3|4 \rangle s_{234}} + \\
& \frac{5/3\langle 13 \rangle [15]\langle 6|1+5|2 \rangle}{\langle 1|2+3|1 \rangle \langle 1|2+3|4 \rangle s_{234}} + \\
& \frac{-2/3[15]\langle 34 \rangle \langle 6|1+5|2 \rangle}{\langle 23 \rangle [23]\langle 56 \rangle [56] s_{234}} + \\
& \frac{-35/48(14)[14]\langle 3|1+4|2 \rangle \langle 4|2+3|1 \rangle \langle 6|1+4|5 \rangle \langle s_{36}+s_{35}+s_{25}+s_{26} \rangle}{\Delta_{23|14|56}^3} + \\
& \frac{-1/6\langle 13 \rangle \langle 16 \rangle [24][45]\langle 4|2+3|1 \rangle}{\langle 1|2+3|4 \rangle^2 \Delta_{23|14|56}} + \\
& \frac{-7/24(14)[45]\langle 3|1+4|2 \rangle \langle 4|2+3|1 \rangle \langle 6|2+3|4 \rangle}{\langle 1|2+3|4 \rangle \Delta_{23|14|56}^2} + \\
& \frac{\langle 13 \rangle \langle 4|2+3|1 \rangle (s_{123}-s_{234})(1/12[24]\langle 6|1+4|5 \rangle -1/8[24][45]\langle 46 \rangle +1/24[14]\langle 16 \rangle [25])}{\langle 1|2+3|4 \rangle \Delta_{23|14|56}^2} + \\
& \frac{1/4(14)[24]\langle 36 \rangle [45]\langle 4|2+3|1 \rangle (s_{123}-s_{234})}{\langle 1|2+3|4 \rangle \Delta_{23|14|56}^2} + \\
& \frac{2/3\langle 13 \rangle [15][24]\langle 46 \rangle}{\langle 23 \rangle [23]\langle 56 \rangle [56]\langle 1|2+3|4 \rangle} + \\
& \frac{2/3\langle 34 \rangle \langle 36 \rangle [45]}{\langle 23 \rangle \langle 56 \rangle [56]\langle 1|2+3|4 \rangle} + \\
& \frac{2/3[24][25]\langle 46 \rangle}{[23]\langle 56 \rangle [56]\langle 1|2+3|4 \rangle} + \\
& \frac{-2/3\langle 36 \rangle^2}{\langle 23 \rangle \langle 56 \rangle \langle 1|2+3|4 \rangle} + \\
& \frac{-1/12\langle 36 \rangle^2 [56]\langle s_{14}-s_{56} \rangle}{\langle 23 \rangle \langle 1|2+3|4 \rangle \Delta_{23|14|56}} + \\
& \frac{-1/4[15]\langle 34 \rangle \langle 36 \rangle}{\langle 23 \rangle \Delta_{23|14|56}} + \\
& \frac{-1/12\langle 34 \rangle \langle 36 \rangle [45] s_{234}}{\langle 23 \rangle \langle 1|2+3|4 \rangle \Delta_{23|14|56}} + \\
& \frac{-1/6[12][25]\langle 46 \rangle}{[23] \Delta_{23|14|56}} + \\
& \frac{1/12[25]^2 \langle 56 \rangle s_{234}}{[23]\langle 1|2+3|4 \rangle \Delta_{23|14|56}} + \\
& \frac{-1/3[15][25]\langle 34 \rangle}{[56] \Delta_{23|14|56}} + \\
& \frac{1/12\langle 23 \rangle [25]^2 s_{123}}{[56]\langle 1|2+3|4 \rangle \Delta_{23|14|56}} + \\
& \frac{-1/12[23]\langle 36 \rangle^2 \langle s_{14}-s_{23} \rangle}{\langle 56 \rangle \langle 1|2+3|4 \rangle \Delta_{23|14|56}} + \\
& \frac{-1/3[12]\langle 36 \rangle \langle 46 \rangle}{\langle 56 \rangle \Delta_{23|14|56}} + \\
& \frac{-1/12[23]\langle 36 \rangle^2 s_{123}}{\langle 56 \rangle \langle 1|2+3|4 \rangle \Delta_{23|14|56}} + \\
& \frac{1/4\langle 23 \rangle [25]\langle 6|1+5|2 \rangle +1/6[25]\langle 36 \rangle \langle 1|2+4|1 \rangle +1/6[12]\langle 13 \rangle [25]\langle 26 \rangle -1/12\langle 6|1+5|2 \rangle \langle 3|1+4|5 \rangle}{\langle 1|2+3|4 \rangle \Delta_{23|14|56}} + \\
& \frac{\langle 6|1+4|5 \rangle (1/6[12]^2 \langle 13 \rangle \langle 24 \rangle \dots \langle \text{5 terms} \rangle \dots +1/12[12]\langle 24 \rangle [24]\langle 34 \rangle)}{\Delta_{23|14|56}^2} + \\
& \frac{\langle 3|1+4|2 \rangle \langle 3/8[14]\langle 24 \rangle [25]\langle 46 \rangle \dots \langle \text{6 terms} \rangle \dots +3/8[14]\langle 34 \rangle [35]\langle 46 \rangle)}{\Delta_{23|14|56}^2} + \\
& \frac{\langle 4|2+3|1 \rangle \langle 5/12[12]\langle 14 \rangle \langle 36 \rangle [45] \dots \langle \text{6 terms} \rangle \dots +1/8[23]\langle 34 \rangle \langle 36 \rangle [45]}{\Delta_{23|14|56}^2} + \\
& \frac{[12](-1/8[12]\langle 14 \rangle \langle 24 \rangle \langle 36 \rangle [45] +1/8\langle 12 \rangle [12]\langle 13 \rangle [15]\langle 46 \rangle -1/8\langle 14 \rangle [14]\langle 34 \rangle [35]\langle 36 \rangle -1/8\langle 34 \rangle^2 [34][45]\langle 46 \rangle)}{\Delta_{23|14|56}^2}
\end{aligned}$$