

$$\begin{aligned}
& \frac{9/64[14]\langle 34 \rangle \langle 46 \rangle (s_{123} - s_{234})[25](s_{124} - s_{134})}{\Delta_{14|23|56}^2} + \\
& \frac{9/32[12]\langle 14 \rangle [15]\langle 26 \rangle \langle 3|1+4|2 \rangle (s_{123} - s_{234})}{\Delta_{14|23|56}^2} + \\
& \frac{-9/32[12]\langle 14 \rangle \langle 36 \rangle [45]\langle 4|2+3|1 \rangle (s_{124} - s_{134})}{\Delta_{14|23|56}^2} + \\
& \frac{9/16[12]\langle 14 \rangle \langle 26 \rangle [45]\langle 3|1+4|2 \rangle \langle 4|2+3|1 \rangle}{\Delta_{14|23|56}^2} + \\
& \frac{9/2[13]\langle 24 \rangle [35]\langle 36 \rangle \langle 3|1+4|2 \rangle}{\langle 2|1+4|3 \rangle \Delta_{14|23|56}} + \\
& \frac{-9/4[12]\langle 24 \rangle [35]\langle 36 \rangle (s_{134} - s_{124})}{\langle 2|1+4|3 \rangle \Delta_{14|23|56}} + \\
& \frac{\langle 34 \rangle [25] (3/16[14]\langle 46 \rangle + 3/2[13]\langle 36 \rangle)}{\Delta_{14|23|56}} + \\
& (123456 \rightarrow -\overline{432165}) + \\
& (123456 \rightarrow 523614) + \\
& (123456 \rightarrow -\overline{632541}) + \\
& \frac{\langle 26 \rangle [23] (s_{13} - s_{24}) (3\langle 23 \rangle [35]\langle 56 \rangle - 3\langle 26 \rangle \langle 2|5+6|2 \rangle)}{\langle 56 \rangle \langle 1|2+3|4 \rangle \langle 2|1+4|3 \rangle^2} + \\
& \frac{1[15]^2 \langle 34 \rangle^2}{\langle 23 \rangle [56] \langle 4|2+3|1 \rangle} + \\
& \frac{1\langle 3|1+2|5 \rangle^2}{\langle 23 \rangle [56] \langle 1|2+3|4 \rangle} + \\
& \frac{\langle 2|5+6|2 \rangle (-3[24]\langle 26 \rangle \langle 46 \rangle - 3[34]\langle 36 \rangle \langle 46 \rangle + 3[23]\langle 26 \rangle \langle 36 \rangle)}{\langle 56 \rangle \langle 1|2+3|4 \rangle \langle 2|1+4|3 \rangle} + \\
& (123456 \rightarrow -\overline{432165}) + \\
& \frac{-6[13]\langle 24 \rangle \langle 26 \rangle [35] (s_{134} - s_{124})}{\langle 2|1+4|3 \rangle^3} + \\
& \frac{-9/8\langle 14 \rangle [14]\langle 23 \rangle [23]\langle 4|2+3|1 \rangle \langle 6|1+4|5 \rangle (s_{134} - s_{124})}{\langle 2|1+4|3 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-9/8\langle 4|2+3|1 \rangle (s_{23} - s_{56}) \langle 23 \rangle \langle 6|1+4|5 \rangle [23] (s_{134} - s_{124})}{\langle 2|1+4|3 \rangle \Delta_{14|23|56}^2} + \\
& \frac{-3[13]\langle 24 \rangle \langle 26 \rangle [35]\langle 3|1+4|2 \rangle (s_{134} - s_{124})}{\langle 2|1+4|3 \rangle^2 \Delta_{14|23|56}} + \\
& \frac{6\langle 23 \rangle [23] \langle 6|1+3|5 \rangle}{\langle 1|2+3|4 \rangle \langle 2|1+4|3 \rangle}
\end{aligned}$$