

$$\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}$$