

$$\begin{aligned}
& \frac{\langle 6|1+4|5\rangle\langle 4|2+3|1\rangle(-3/8[24]\langle 34\rangle+3/8[26]\langle 36\rangle)}{\Delta_{14|23|56}^2} + \\
& \frac{3/16[12]\langle 34\rangle\langle 6|1+4|5\rangle(s_{123}-s_{234})}{\Delta_{14|23|56}^2} + \\
& \frac{3/16[25]\langle 36\rangle\langle 4|2+3|1\rangle(s_{145}-s_{146})}{\Delta_{14|23|56}^2} + \\
& \frac{3/4[14][26]\langle 34\rangle\langle 46\rangle\langle 6|1+4|5\rangle}{\Delta_{14|23|56}^2} + \\
& \frac{3/8[14][25]\langle 34\rangle\langle 46\rangle(s_{145}-s_{146})}{\Delta_{14|23|56}^2} + \\
& \frac{\langle 6|1+4|5\rangle\langle 4|2+3|1\rangle(3/4\langle 36\rangle^2[36]^2-3/4\langle 26\rangle^2[26]^2-3/2\langle 25\rangle[25]\langle 26\rangle[26])}{(2|1+4|3|\Delta_{14|23|56}^2)} + \\
& \frac{3/4[25]\langle 34\rangle\langle 46\rangle}{\langle 14\rangle\Delta_{14|23|56}} + \\
& \frac{-1\langle 34\rangle[35]\langle 46\rangle s_{124}}{\langle 14\rangle(2|1+4|3|\Delta_{14|23|56})} + \\
& \frac{-1\langle 34\rangle[35]\langle 46\rangle(s_{23}-s_{56})}{\langle 14\rangle(2|1+4|3|\Delta_{14|23|56})} + \\
& \frac{1/4[15]\langle 34\rangle\langle 36\rangle}{\langle 23\rangle\Delta_{14|23|56}} + \\
& \frac{-4\langle 24\rangle[35]^2\langle 56\rangle}{\langle 1|2+4|3\rangle\langle 2|1+4|3\rangle^2} + \\
& \frac{-1\langle 26\rangle[35]\langle 4|2+3|1\rangle(s_{124}-s_{134})}{\langle 2|1+4|3\rangle^2\Delta_{14|23|56}} + \\
& \frac{[25]\langle 26\rangle\langle 2|12\rangle\langle 24\rangle+3[13]\langle 34\rangle}{\langle 2|1+4|3|\Delta_{14|23|56}} + \\
& (123456 \rightarrow -\overline{432165})
\end{aligned}$$