$$\begin{array}{c} (12)^2 \langle 23 \rangle \langle 34 \rangle \langle 45 \rangle \langle 56 \rangle \\ \\ \frac{1/3i [23] \langle 26 \rangle^2 \langle 36 \rangle^2}{\langle 12 \rangle \langle 16 \rangle \langle 23 \rangle^2 \langle 34 \rangle \langle 45 \rangle \langle 56 \rangle} + \\ \\ \frac{1/3i \langle 6 [2+3] 1]^2 \langle 6 [1+2] 3 \rangle}{\langle 12 \rangle \langle 23 \rangle \langle 45 \rangle \langle 56 \rangle} \langle 4 [2+3] 1] s_{123} \\ \\ \frac{1/6i [25] [15]^3 [34]}{[16] \langle 34 \rangle [56] \langle 2 [1+6] 5] s_{234}} + \\ \\ \frac{1/6i [45] [15]^3 [34]}{[16] \langle 23 \rangle [56] \langle 2 [1+6] 5] s_{234}} + \\ \\ \frac{1/6i [45] [15]^3 [45]}{[16] \langle 15 \rangle [15] \langle 15 \rangle [15]} + \\ \end{array}$$

 $1/3i[12]\langle 26\rangle^2\langle 16\rangle$

[16](23)(34)[56](2|1+6|5] +

 $\frac{1/3i[12]\langle 26\rangle\langle 46\rangle\langle 6|2+3|1]}{\langle 12\rangle\langle 23\rangle\langle 34\rangle\langle 45\rangle\langle 56\rangle\langle 4|2+3|1]} +$

 $(123456 \rightarrow 543216)$