$$\frac{1/2\,i[12]\langle 23\rangle^3\langle 1|2+3|5]^4}{\langle 13\rangle^4[45][56]\langle 1|2+3|4]\langle 3|1+2|6]s_{123}}+$$

$$\frac{-2i[12]\langle 23\rangle^2\langle 1|2+3|5]^3\langle 2|1+3|5]}{\langle 13\rangle^3[45][56]\langle 1|2+3|4]\langle 3|1+2|6]s_{123}}+$$

$$\frac{3i[12]\langle 23\rangle\langle 1|2+3|5]^2\langle 2|1+3|5]^2}{\langle 13\rangle^2[45][56]\langle 1|2+3|4]\langle 3|1+2|6]s_{123}}+$$

$$\frac{-2i[12]\langle 1|2+3|5]\langle 2|1+3|5]^3}{\langle 13\rangle[45][56]\langle 1|2+3|4]\langle 3|1+2|6]s_{123}}+$$

$$(123456 \to \overline{216543})+$$

$$\frac{1/2\,i\langle 12\rangle[12]\langle 16\rangle^3[23]^3 s_{234}^3}{[34]\langle 56\rangle\langle 1|3+4|2]^4\langle 1|2+3|4]\langle 5|1+6|2]}+$$

$$\frac{2i\langle 12\rangle[12]\langle 16\rangle^2[23]^2\langle 6|2+4|3]s_{234}^2}{[34]\langle 56\rangle\langle 1|3+4|2]^3\langle 1|2+3|4]\langle 5|1+6|2]}+$$

$$\frac{3i\langle 12\rangle[12]\langle 16\rangle[23]\langle 6|2+4|3]^2 s_{234}}{[34]\langle 56\rangle\langle 1|3+4|2]^2\langle 1|2+3|4]\langle 5|1+6|2]}+$$

$$\frac{2i\langle 12\rangle[12]\langle 6|2+4|3]^3}{[34]\langle 56\rangle\langle 1|3+4|2]\langle 1|2+3|4]\langle 5|1+6|2]}$$