$$\frac{2/3i\langle 12\rangle^3[15]^3[23]s_{123}}{[45]\langle 1|2+3|1]^2\langle 1|2+3|4]\langle 1|2+3|6]\langle 3|1+2|6]}+$$

$$\frac{-2/3i\langle 12\rangle^3[15]^3[23]\langle 3|1+2|5]}{\langle 13\rangle[45][56]\langle 1|2+3|1]^2\langle 1|2+3|4]\langle 3|1+2|6]}+$$

$$\frac{1i\langle 12\rangle^3[15]^2\langle 23\rangle[23]^2[56]}{[45]\langle 1|2+3|1]\langle 1|2+3|4]\langle 1|2+3|6]^2\langle 3|1+2|6]}+$$

$$\frac{\langle 12\rangle^2[15]^2[23](-1i\langle 12\rangle[15]+2i\langle 23\rangle[35])}{[45]\langle 1|2+3|1]\langle 1|2+3|4]\langle 1|2+3|6]\langle 3|1+2|6]}+$$

$$\frac{1i\langle 12\rangle^3[15]^2[25]\langle 3|1+2|5]}{\langle 13\rangle^2[45][56]\langle 1|2+3|1]\langle 1|2+3|4]\langle 3|1+2|6]}+$$

$$\frac{2i\langle 12\rangle^2[15]^2[35]\langle 3|1+2|5]}{\langle 13\rangle[45][56]\langle 1|2+3|1]\langle 1|2+3|4]\langle 3|1+2|6]}+$$

$$\frac{-1i\langle 12\rangle^2[15]\langle 23\rangle[25]^2\langle 2|1+3|5]}{\langle 13\rangle^2[45][56]\langle 1|2+3|4]\langle 3|1+2|6]s_{123}}+$$

$$\frac{-1i\langle 12\rangle^2[15]^2[25]\langle 2|1+3|5]}{\langle 13\rangle[45][56]\langle 1|2+3|4]\langle 3|1+2|6]s_{123}}+$$

$$\frac{\langle 24\rangle^2\langle 26\rangle^2(-1/6i\langle 13\rangle^2[13]\langle 46\rangle+1/6i\langle 13\rangle[13]\langle 14\rangle\langle 36\rangle-1/3i\langle 13\rangle\langle 16\rangle[16]\langle 46\rangle+1/3i[12]\langle 14\rangle\langle 16\rangle\langle 23\rangle)}{\langle 12\rangle\langle 16\rangle\langle 23\rangle\langle 34\rangle\langle 45\rangle\langle 56\rangle\langle 1|2+3|4]\langle 3|1+2|6]}+$$

$$(123456\rightarrow\overline{234561})+$$

$$(123456\rightarrow 345612)+$$

$$(123456\rightarrow\overline{456123})+$$

$$(123456\rightarrow 561234)+$$

$$(123456\rightarrow\overline{612345})+$$

$$(123456\rightarrow\overline{654321})+$$

$$(123456\rightarrow 543216)+$$

$$(123456\rightarrow\overline{432165})+$$

$$(123456\rightarrow 321654)+$$

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

$$(123456\rightarrow 165432)+$$

$$\frac{1/4i\langle 16\rangle[23]\langle 4|1+2|3]\langle 6|1+2|5]\Omega_{135}}{\langle 1|3+4|2]^2\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}}+$$

$$\frac{\langle 16\rangle[23](1i\langle 12\rangle[12][13]\langle 16\rangle[23]\langle 26\rangle\ldots\langle\!\langle 30\,\text{terms}\rangle\!\rangle\ldots-1i\langle 26\rangle[26][34]^2\langle 46\rangle^2)}{[34]\langle 56\rangle\langle 1|3+4|2]^2\langle 1|2+3|4]\langle 5|1+6|2]}+$$

$$\frac{5/24i\langle 16\rangle[23]\langle 2|3+4|1]\langle 4|1+2|3]\langle 6|1+2|5]\Omega_{135}}{\langle 1|3+4|2]\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}^2}+$$

$$\frac{-5/12i\langle 13\rangle^2[13]^3\langle 16\rangle[35]\langle 46\rangle\ldots\langle\!\langle 113\,\text{terms}\rangle\!\rangle\ldots-1/6i[36]^2[45]^2\langle 46\rangle^3\langle 56\rangle}{\langle 1|3+4|2]\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}}+$$

$$\frac{-1i[13]^3\langle 16\rangle^3\ldots\langle\!\langle 6\,\text{terms}\rangle\!\rangle\ldots+1/3i[23]\langle 26\rangle[34]^2\langle 46\rangle^2}{[34]\langle 56\rangle\langle 1|3+4|2]\langle 1|2+3|4]\langle 5|1+6|2]}+$$

$$\frac{\langle 4|1+2|3]\langle 6|1+2|5]\langle 2|3+4|1](5/36i\langle 25\rangle\langle 34\rangle[35][45]\ldots\langle\!\langle 4\,\text{terms}\rangle\!\rangle\ldots+5/36i\langle 24\rangle[25]\langle 26\rangle[46])}{\langle 1|2+3|4]\langle 3|1+2|6]\Delta_{135}^2}+$$

$$\frac{1/9i\langle 2|1+3|5]^4}{\langle 12\rangle\langle 23\rangle[45][56]\langle 1|2+3|4]\langle 3|1+2|6]s_{123}}+$$

$$\frac{1i\langle 12\rangle[15]\langle 23\rangle[35]\langle 2|1+3|5]^2}{\langle 12\rangle\langle 23\rangle[45][56]\langle 1|2+3|4]\langle 3|1+2|6]s_{123}}+$$

$$(123456\rightarrow\overline{234561})+$$

$$(123456\rightarrow 345612)+$$

$$(123456\rightarrow\overline{456123})+$$

$$(123456\rightarrow 561234)+$$

$$(123456\rightarrow\overline{612345})+$$

$$\frac{-207014111/192i\langle 12\rangle^5\langle 14\rangle\langle 26\rangle[12]^5[13][15]\ldots\langle\!\langle 4962\,\text{terms}\rangle\!\rangle\ldots-5/12i\langle 24\rangle^2\langle 26\rangle\langle 34\rangle^2\langle 36\rangle^2[15][23][24][34]^2[36]^2}{\langle 12\rangle[12]\langle 34\rangle[34]\langle 56\rangle[56]\langle 1|2+3|4]\langle 3|1+2|6]\Delta_{135}}+$$

$$\frac{207014111/48i\langle 12\rangle^3\langle 14\rangle\langle 26\rangle[12]^3[13][15]\ldots\langle\!\langle 917\,\text{terms}\rangle\!\rangle\ldots-1/3i\langle 26\rangle^2\langle 46\rangle^3[14][26][36][46][56]}{\langle 12\rangle[12]\langle 34\rangle[56][56]\langle 1|2+3|4]\langle 3|1+2|6]\langle 5|1+6|2]}+$$

$$(123456\rightarrow\overline{234561})$$