$$\frac{2/3i\langle12\rangle^3[15]^3[23]s_{123}}{[45]\langle1|2+3|1]^2\langle1|2+3|4]\langle1|2+3|6]\langle3|1+2|6]} +$$

$$\frac{-2/3i\langle12\rangle^3[15]^3[23]\langle3|1+2|5]}{\langle13\rangle[45][56]\langle1|2+3|1]^2\langle1|2+3|4]\langle3|1+2|6]} +$$

$$\frac{1i\langle12\rangle^3[15]^2\langle23\rangle[23]^2[56]}{[45]\langle1|2+3|1]\langle1|2+3|4]\langle1|2+3|6]^2\langle3|1+2|6]} +$$

$$\frac{\langle12\rangle^2[15]^2[23](-1i\langle12\rangle[15]+2i\langle23\rangle[35])}{[45]\langle1|2+3|1]\langle1|2+3|4]\langle1|2+3|6]\langle3|1+2|6]} +$$

$$\frac{1i\langle12\rangle^3[15]^2[25]\langle3|1+2|5]}{\langle13\rangle^2[45][56]\langle1|2+3|1]\langle1|2+3|4]\langle3|1+2|6]} +$$

$$\frac{2i\langle12\rangle^2[15]^2[35]\langle3|1+2|5]}{\langle13\rangle[45][56]\langle1|2+3|1]\langle1|2+3|4]\langle3|1+2|6]} +$$

$$\frac{-1i\langle12\rangle^2[15]\langle23\rangle[25]^2\langle2|1+3|5]}{\langle13\rangle^2[45][56]\langle1|2+3|4]\langle3|1+2|6]s_{123}} +$$

$$\frac{-1i\langle12\rangle^2[15]^2[25]\langle2|1+3|5]}{\langle13\rangle[45][56]\langle1|2+3|4]\langle3|1+2|6]s_{123}} +$$

$$\frac{\langle24\rangle^2\langle26\rangle^2(-1/6i\langle13\rangle^2[13]\langle46\rangle\ldots\langle\!\langle2\text{ terms}\rangle\!\rangle\ldots+1/3i[12]\langle14\rangle\langle16\rangle\langle23\rangle)}{\langle12\rangle\langle16\rangle\langle23\rangle\langle34\rangle\langle45\rangle\langle56\rangle\langle1|2+3|4]\langle3|1+2|6]} +$$

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

$$(123456 \rightarrow 345612)+$$

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

$$(123456 \rightarrow 561234)+$$

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

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

$$(123456 \rightarrow 543216)+$$

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

$$(123456 \rightarrow 321654)+$$

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

$$(123456 \rightarrow 165432)+$$

$$\frac{1/4i\langle16\rangle[23]\langle4|1+2|3]\langle6|1+2|5]\Omega_{135}}{\langle1|3+4|2]^2\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}} +$$

$$\frac{\langle16\rangle[23](1i\langle12\rangle[12][13]\langle16\rangle[23]\langle26\rangle\ldots\langle\!\langle30\text{ terms}\rangle\!\rangle\ldots-1i\langle26\rangle[26][34]^2\langle46\rangle^2)}{[34]\langle56\rangle\langle1|3+4|2]^2\langle1|2+3|4]\langle5|1+6|2]} +$$

$$\frac{5/24i\langle16\rangle[23]\langle2|3+4|1]\langle4|1+2|3]\langle6|1+2|5]\Omega_{135}}{\langle1|3+4|2]\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}^2} +$$

$$\frac{-5/12i\langle13\rangle^2[13]^3\langle16\rangle[35]\langle46\rangle\ldots\langle\!\langle113\text{ terms}\rangle\!\rangle\ldots-1/6i[36]^2[45]^2\langle46\rangle^3\langle56\rangle}{\langle1|3+4|2]\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}} +$$

$$\frac{-1i[13]^3\langle16\rangle^3\ldots\langle\!\langle6\text{ terms}\rangle\!\rangle\ldots+1/3i[23]\langle26\rangle[34]^2\langle46\rangle^2}{[34]\langle56\rangle\langle1|3+4|2]\langle1|2+3|4]\langle5|1+6|2]} +$$

$$\frac{\langle4|1+2|3]\langle6|1+2|5]\langle2|3+4|1](5/36i\langle25\rangle\langle34\rangle[35][45]\ldots\langle\!\langle4\text{ terms}\rangle\!\rangle\ldots+5/36i\langle24\rangle[25]\langle26\rangle[46])}{\langle1|2+3|4]\langle3|1+2|6]\Delta_{135}^2} +$$

$$\frac{1/9i\langle2|1+3|5]^4}{\langle12\rangle\langle23\rangle[45][56]\langle1|2+3|4]\langle3|1+2|6]s_{123}} +$$

$$\frac{1i\langle12\rangle[15]\langle23\rangle[35]\langle2|1+3|5]^2}{\langle12\rangle\langle23\rangle[45][56]\langle1|2+3|4]\langle3|1+2|6]s_{123}} +$$

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

$$(123456 \rightarrow 345612)+$$

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

$$(123456 \rightarrow 561234)+$$

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

$$\frac{-207014111/192i\langle12\rangle^5\langle14\rangle\langle26\rangle[12]^5[13][15]\ldots\langle\!\langle4962\text{ terms}\rangle\!\rangle\ldots-5/12i\langle24\rangle^2\langle26\rangle\langle34\rangle^2\langle36\rangle^2[15][23][24][34]^2[36]^2}{\langle12\rangle[12]\langle34\rangle[34][56][56]\langle1|2+3|4]\langle3|1+2|6]\Delta_{135}^2} +$$

$$\frac{207014111/48i\langle12\rangle^3\langle14\rangle\langle26\rangle[12]^3[13][15]\ldots\langle\!\langle917\text{ terms}\rangle\!\rangle\ldots-1/3i\langle26\rangle^2\langle46\rangle^3[14][26][36][46][56]}{\langle12\rangle[12]\langle34\rangle[34]\langle56\rangle[56]\langle1|2+3|4]\langle3|1+2|6]\langle5|1+6|2]} +$$

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