$$\frac{1/3i\langle12\rangle^2[12][13]^2\langle23\rangle[35]\langle3|1+2|5]^2}{[56]\langle1|2+3|4]\langle3|1+2|3]^3\langle3|1+2|4]\langle3|1+2|6]}+$$

$$\frac{-1/3i\langle12\rangle[12][13]\langle23\rangle^2[35]^2\langle1|2+3|5]\langle3|1+2|5]}{\langle13\rangle[45][56]\langle1|2+3|4]\langle3|1+2|3]^3\langle3|1+2|6]}+$$

$$\frac{-1/2i\langle12\rangle^2[13]^2[14]\langle3|1+2|5]^3}{[56]\langle1|2+3|4]\langle3|1+2|3]^2\langle3|1+2|4]^2\langle3|1+2|6]}+$$

$$\frac{\langle12\rangle[13]^2\langle3|1+2|5]^2(-5/6i\langle12\rangle[15]+1i\langle23\rangle[35])}{[56]\langle1|2+3|4]\langle3|1+2|3]^2\langle3|1+2|4]\langle3|1+2|6]}+$$

$$\frac{1/2i\langle12\rangle[13]\langle23\rangle^2[25][35]\langle1|2+3|5]\langle3|1+2|5]}{\langle13\rangle^2[45][56]\langle1|2+3|4]\langle3|1+2|3]^2\langle3|1+2|6]}+$$

$$\frac{[13]\langle23\rangle[35]\langle1|2+3|5](5/3i\langle12\rangle[15]-5/6i\langle23\rangle[35])}{\langle13\rangle[45][56]\langle1|2+3|4]\langle3|1+2|3]^2\langle3|1+2|6]}+$$

$$\frac{-1i[13]\langle23\rangle^2[45]^2\langle3|1+2|5]s_{123}^2}{[56]\langle1|2+3|4]\langle3|1+2|3]\langle3|1+2|4]^3\langle3|1+2|6]}+$$

$$\frac{\langle23\rangle[12]\langle3|1+2|5](-1/2i\langle12\rangle[13][15][45]\ldots\langle\!\langle3\,\mathrm{terms}\rangle\!\rangle\ldots+3i\langle23\rangle^2[34][35]^2)}{[56]\langle1|2+3|4]\langle3|1+2|3]\langle3|1+2|4]^2\langle3|1+2|6]}+$$

$$\frac{-1/2i\langle12\rangle[13][15]\langle3|1+2|5]\langle2|1+3|5]}{[56]\langle1|2+3|4]\langle3|1+2|3]\langle3|1+2|4]\langle3|1+2|6]}+$$

$$\frac{1i\langle12\rangle^2\langle23\rangle^3[25]^3[35]}{\langle13\rangle^3[45][56]\langle1|2+3|4]\langle3|1+2|3]\langle3|1+2|6]}+$$

$$\frac{\langle12\rangle\langle23\rangle[25][35]\langle3|1+2|5](-7/2i\langle12\rangle[15]+1/2i\langle23\rangle[35])}{\langle13\rangle^2[45][56]\langle1|2+3|4]\langle3|1+2|3]\langle3|1+2|6]}+$$

$$\frac{\langle23\rangle[25][35]\langle2|1+3|5](-5/6i\langle12\rangle[15]+1/3i\langle23\rangle[35])}{\langle13\rangle[45][56]\langle1|2+3|4]\langle3|1+2|3]\langle3|1+2|6]}+$$

$$\frac{[13][35]\langle3|1+2|5](13/3i\langle12\rangle^2[15]^2-31/6i\langle12\rangle[15]\langle23\rangle[35]+11/6i\langle23\rangle^2[35]^2)}{[45][56]\langle1|2+3|4]\langle3|1+2|3]\langle3|1+2|6]s_{123}}+$$

$$\frac{\langle12\rangle[12]\langle2|3+4|1]\langle4|1+2|3]\langle6|1+2|5]s_{134}(15/128i\langle12\rangle[12]+5/64i\langle13\rangle[13]+15/64i\langle14\rangle[14]+5/32i\langle15\rangle[15])}{\langle1|3+4|2]\langle3|1+2|4]\langle5|1+2|6]\Delta_{135}^2}+$$

$$\frac{\langle12\rangle[12]\langle2|3+4|1]\langle4|1+2|3]\langle6|1+2|5]s_{234}(15/128i\langle12\rangle[12]+5/64i\langle13\rangle[13]+15/64i\langle14\rangle[14]+5/32i\langle15\rangle[15])}{\langle1|3+4|2]\langle3|1+2|4]\langle5|1+2|6]\Delta_{135}^2}+$$

$$\frac{1/48i[12]\langle16\rangle^2\langle2|3+4|1]\langle4|1+2|3]\langle6|1+2|3]\Omega_{135}}{\langle56\rangle\langle1|3+4|2]\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}^2}+$$

$$\frac{[13](-17/12i\langle12\rangle^2[12]^2[13]\langle16\rangle^2[23]\langle26\rangle\ldots\langle\!\langle43\,\mathrm{terms}\rangle\!\rangle\ldots+7/8i[13]\langle16\rangle^2\langle23\rangle[23]^2\langle26\rangle\langle34\rangle[34])}{[34]\langle56\rangle\langle1|3+4|2]\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}}+$$

$$\frac{-1/4i[14]\langle23\rangle^2[45]\langle6|1+2|5]s_{123}\Omega_{351}}{\langle1|2+3|4]\langle3|1+2|4]^3\langle3|1+2|6]\Delta_{135}}+$$

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

$$\frac{3/16i\langle12\rangle[12]\langle23\rangle[45]\langle2|3+4|1]\langle3|5+6|3]\langle6|1+2|5]\Omega_{351}}{\langle1|2+3|4]\langle3|1+2|4]^2\langle3|1+2|6]\Delta_{135}^2}+$$

$$\frac{\langle23\rangle\langle6|1+2|5](-7/8i\langle12\rangle^2[12]\langle14\rangle[14]^2[15]\ldots\langle\!\langle15\,\mathrm{terms}\rangle\!\rangle\ldots+1/4i[13]\langle23\rangle^3[23][25][34])}{\langle1|2+3|4]\langle3|1+2|4]^2\langle3|1+2|6]\Delta_{135}}+$$

$$\frac{-1/48i\langle12\rangle^2[15]^3s_{123}^2\Omega_{351}}{[56]\langle1|2+3|4]\langle3|1+2|4]\langle3|1+2|6]\Delta_{135}^2}+$$

$$\frac{\langle12\rangle\langle23/32i\langle12\rangle^3[12]^2[13]\langle15\rangle[15]^3\langle36\rangle\ldots\langle\!\langle248\,\mathrm{terms}\rangle\!\rangle\ldots-5/8i[12]\langle16\rangle\langle23\rangle[25]^2\langle26\rangle^3\langle36\rangle[36]^2)}{\langle1|2+3|4]\langle3|1+2|4]\langle3|1+2|6]\Delta_{135}^2}+$$

$$\frac{\langle12\rangle\Pi_{351}(-1/16i\langle12\rangle^3[12]^3[15]^2\langle26\rangle\ldots\langle\!\langle124\,\mathrm{terms}\rangle\!\rangle\ldots+1i[12]\langle16\rangle\langle23\rangle[23]\langle26\rangle^2[35]\langle36\rangle[56])}{\langle1|2+3|4]\langle3|1+2|4]\langle3|1+2|6]\Delta_{135}^2}+$$

$$\frac{-9i\langle12\rangle^4[12]^2[15]^3\ldots\langle\!\langle149\,\mathrm{terms}\rangle\!\rangle\ldots-1/4i[15]\langle23\rangle^2\langle24\rangle^2[25]^2[34]^2}{[56]\langle1|2+3|4]\langle3|1+2|4]\langle3|1+2|6]\Delta_{135}}+$$

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

$$\frac{\langle12\rangle\langle23\rangle[25]^2\langle2|1+3|5](-7/2i\langle12\rangle[15]+1/2i\langle23\rangle[35])}{\langle13\rangle^2[45][56]\langle1|2+3|4]\langle3|1+2|6]s_{123}}+$$

$$\frac{[25]\langle2|1+3|5](-13/3i\langle12\rangle^2[15]^2+5/3i\langle12\rangle[15]\langle23\rangle[35]-1/3i\langle23\rangle^2[35]^2)}{\langle13\rangle[45][56]\langle1|2+3|4]\langle3|1+2|6]s_{123}}+$$

$$\frac{-719/32i\langle12\rangle^3[12]^3[15]\langle24\rangle\langle26\rangle[35]\ldots\langle\!\langle312\,\mathrm{terms}\rangle\!\rangle\ldots+11/4i[16]\langle24\rangle[24][25]\langle26\rangle^3[36]\langle46\rangle[56]}{\langle1|2+3|4]\langle3|1+2|6]\Delta_{135}^2}+$$

$$\frac{25i\langle12\rangle^2[13]\langle14\rangle[15]^3\ldots\langle\!\langle13\,\mathrm{terms}\rangle\!\rangle\ldots+5/4i[15]\langle23\rangle\langle24\rangle^2[25][34][35]}{[56]\langle1|2+3|4]\langle3|1+2|6]\Delta_{135}}+$$

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

$$\frac{-1/4i\langle14\rangle\langle16\rangle^2[23]^2[25]\langle2|3+4|1]\Omega_{135}}{\langle1|3+4|2]^3\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}}+$$

$$\frac{1i\langle16\rangle^3[23]^3\langle2|3+4|1]s_{234}}{[34]\langle56\rangle\langle1|3+4|2]^3\langle1|2+3|4]\langle5|1+6|2]}+$$

$$\frac{-3/16i\langle14\rangle\langle16\rangle^2[23]^2[25]\langle2|3+4|1]^2\Omega_{135}}{\langle1|3+4|2]^2\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}^2}+$$

$$\frac{\langle16\rangle[23]\langle2|3+4|1](-3/8i\langle12\rangle[12]^2\langle14\rangle\langle16\rangle[35]\ldots\langle\!\langle26\,\mathrm{terms}\rangle\!\rangle\ldots+3/8i\langle16\rangle[23]\langle24\rangle^2[24][25])}{\langle1|3+4|2]^2\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}}+$$

$$\frac{\langle16\rangle^2[23]^2\langle2|3+4|1](-1/2i[13]\langle16\rangle-4i[23]\langle26\rangle+9/2i[34]\langle46\rangle)}{[34]\langle56\rangle\langle1|3+4|2]^2\langle1|2+3|4]\langle5|1+6|2]}+$$

$$\frac{\langle12\rangle[12]\langle2|3+4|1]\langle4|1+2|3]\langle6|1+2|5]\Pi_{135}\Pi_{351}\Pi_{513}(5/256is_{134}+5/256is_{234})}{\langle1|3+4|2]\langle3|1+2|4]\langle5|1+2|6]\Delta_{135}^3}+$$

$$\frac{9/8i\langle13\rangle^4[13]^5\langle16\rangle[35]\langle46\rangle\ldots\langle\!\langle298\,\mathrm{terms}\rangle\!\rangle\ldots-7/8i\langle14\rangle[14]^3\langle16\rangle^2[36]^2\langle46\rangle^3[56]}{\langle1|3+4|2]\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}^3}+$$

$$\frac{\Pi_{135}(-441/16i\langle13\rangle^3[13]^4\langle16\rangle[35]\langle46\rangle\ldots\langle\!\langle163\,\mathrm{terms}\rangle\!\rangle\ldots+23/48i[14]^2\langle16\rangle^2[36]^2\langle46\rangle^3[56])}{\langle1|3+4|2]\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}^2}+$$

$$\frac{133/6i\langle13\rangle^2[13]^3\langle16\rangle[35]\langle46\rangle\ldots\langle\!\langle173\,\mathrm{terms}\rangle\!\rangle\ldots+1/8i[35]^2\langle46\rangle\langle56\rangle^3[56]^2}{\langle1|3+4|2]\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}^2}+$$

$$\frac{2613/32i\langle12\rangle^3[12]^2[13]^2[25]\langle26\rangle\langle46\rangle\ldots\langle\!\langle683\,\mathrm{terms}\rangle\!\rangle\ldots-53/48i[15]\langle26\rangle[34][36]\langle46\rangle^4[46]^2}{\langle1|2+3|4]\langle5|1+6|2]\Delta_{135}^2}$$