$$\frac{1/3i\langle 12\rangle^2[12][13]^2\langle 23\rangle[35]\langle 3|1+2|5]^2}{[56]\langle 1|2+3|4]\langle 3|1+2|3]^3\langle 3|1+2|4]\langle 3|1+2|6]}+$$

$$\frac{-1/3i\langle 12\rangle[12][13]\langle 23\rangle^2[35]^2\langle 1|2+3|5]\langle 3|1+2|5]}{\langle 13\rangle[45][56]\langle 1|2+3|4]\langle 3|1+2|3]^3\langle 3|1+2|6]}+$$

$$\frac{-1/2i\langle 12\rangle^2[13]^2[14]\langle 3|1+2|5]^3}{[56]\langle 1|2+3|4]\langle 3|1+2|3]^2\langle 3|1+2|4]^2\langle 3|1+2|6]}+$$

$$\frac{\langle 12\rangle[13]^2\langle 3|1+2|5]^2(-5/6i\langle 12\rangle[15]+1i\langle 23\rangle[35])}{[56]\langle 1|2+3|4]\langle 3|1+2|3]^2\langle 3|1+2|4]\langle 3|1+2|6]}+$$

$$\frac{1/2i\langle 12\rangle[13]\langle 23\rangle^2[25][35]\langle 1|2+3|5]\langle 3|1+2|5]}{\langle 13\rangle^2[45][56]\langle 1|2+3|4]\langle 3|1+2|3]^2\langle 3|1+2|6]}+$$

$$\frac{[13]\langle 23\rangle[35]\langle 1|2+3|5]\langle 3|1+2|5](5/3i\langle 12\rangle[15]-5/6i\langle 23\rangle[35])}{\langle 13\rangle[45][56]\langle 1|2+3|4]\langle 3|1+2|3]^2\langle 3|1+2|6]}+$$

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

$$\frac{\langle 23\rangle[12]\langle 3|1+2|5](-1/2i\langle 12\rangle^2[13][15][45]\ldots\langle\!\langle 3\,\text{terms}\rangle\!\rangle\ldots+3i\langle 23\rangle^2[34][35]^2)}{[56]\langle 1|2+3|4]\langle 3|1+2|3]\langle 3|1+2|4]^2\langle 3|1+2|6]}+$$

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

$$\frac{1i\langle 12\rangle^2\langle 23\rangle^3[25]^3[35]}{\langle 13\rangle^3[45][56]\langle 1|2+3|4]\langle 3|1+2|3]\langle 3|1+2|6]}+$$

$$\frac{\langle 12\rangle\langle 23\rangle[25][35]\langle 3|1+2|5](-7/2i\langle 12\rangle[15]+1/2i\langle 23\rangle[35])}{\langle 13\rangle^2[45][56]\langle 1|2+3|4]\langle 3|1+2|3]\langle 3|1+2|6]}+$$

$$\frac{\langle 23\rangle[25][35]\langle 2|1+3|5](-5/6i\langle 12\rangle[15]+1/3i\langle 23\rangle[35])}{\langle 13\rangle[45][56]\langle 1|2+3|4]\langle 3|1+2|3]\langle 3|1+2|6]}+$$

$$\frac{[13][35]\langle 3|1+2|5](13/3i\langle 12\rangle^2[15]^2-31/6i\langle 12\rangle[15]\langle 23\rangle[35]+11/6i\langle 23\rangle^2[35]^2)}{[45][56]\langle 1|2+3|4]\langle 3|1+2|3]\langle 3|1+2|6]s_{123}}+$$

$$\frac{\langle 12\rangle[12]\langle 2|3+4|1]\langle 4|1+2|3]\langle 6|1+2|5]s_{134}(15/128i\langle 12\rangle[12]+5/64i\langle 13\rangle[13]+15/64i\langle 14\rangle[14]+5/32i\langle 15\rangle[15])}{\langle 1|3+4|2]\langle 3|1+2|4]\langle 5|1+2|6]\Delta_{135}^2}+$$

$$\frac{\langle 12\rangle[12]\langle 2|3+4|1]\langle 4|1+2|3]\langle 6|1+2|5]s_{234}(15/128i\langle 12\rangle[12]+5/64i\langle 13\rangle[13]+15/64i\langle 14\rangle[14]+5/32i\langle 15\rangle[15])}{\langle 1|3+4|2]\langle 3|1+2|4]\langle 5|1+2|6]\Delta_{135}^2}+$$

$$\frac{1/48i[12]\langle 16\rangle^2\langle 2|3+4|1]\langle 4|1+2|3]\langle 6|1+2|3]\Omega_{135}}{\langle 56\rangle\langle 1|3+4|2]\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}^2}+$$

$$\frac{[13](-17/12i\langle 12\rangle^2[12]^2[13]\langle 16\rangle^2[23]\langle 26\rangle\ldots\langle\!\langle 43\,\text{terms}\rangle\!\rangle\ldots+7/8i[13]\langle 16\rangle^2\langle 23\rangle[23]^2\langle 26\rangle\langle 34\rangle[34])}{[34]\langle 56\rangle\langle 1|3+4|2]\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}}+$$

$$\frac{-1/4i[14]\langle 23\rangle^2[45]\langle 6|1+2|5]s_{123}\Omega_{351}}{\langle 1|2+3|4]\langle 3|1+2|4]^3\langle 3|1+2|6]\Delta_{135}}+$$

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

$$\frac{3/16i\langle 12\rangle[12]\langle 23\rangle[45]\langle 2|3+4|1]\langle 3|5+6|3]\langle 6|1+2|5]\Omega_{351}}{\langle 1|2+3|4]\langle 3|1+2|4]^2\langle 3|1+2|6]\Delta_{135}^2}+$$

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

$$\frac{-1/48i\langle 12\rangle^2[15]^3s_{123}^2\Omega_{351}}{[56]\langle 1|2+3|4]\langle 3|1+2|4]\langle 3|1+2|6]\Delta_{135}^2}+$$

$$\frac{\langle 12\rangle(23/32i\langle 12\rangle^3[12]^2[13]\langle 15\rangle[15]^3\langle 36\rangle\ldots\langle\!\langle 248\,\text{terms}\rangle\!\rangle\ldots-5/8i[12][16]\langle 23\rangle[25]^2\langle 26\rangle^3\langle 36\rangle[36]^2)}{\langle 1|2+3|4]\langle 3|1+2|4]\langle 3|1+2|6]\Delta_{135}^2}+$$

$$\frac{\langle 12\rangle\Pi_{351}(-1/16i\langle 12\rangle^3[12]^3[15]^2\langle 26\rangle\ldots\langle\!\langle 124\,\text{terms}\rangle\!\rangle\ldots+1i[12][16]\langle 23\rangle[23]\langle 26\rangle^2[35]\langle 36\rangle[56])}{\langle 1|2+3|4]\langle 3|1+2|4]\langle 3|1+2|6]\Delta_{135}^2}+$$

$$\frac{-9i\langle 12\rangle^4[12]^2[15]^3\ldots\langle\!\langle 149\,\text{terms}\rangle\!\rangle\ldots-1/4i[15]\langle 23\rangle^2\langle 24\rangle^2[25]^2[34]^2}{[56]\langle 1|2+3|4]\langle 3|1+2|4]\langle 3|1+2|6]\Delta_{135}}+$$

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

$$\frac{\langle 12\rangle\langle 23\rangle[25]^2\langle 2|1+3|5](-7/2i\langle 12\rangle[15]+1/2i\langle 23\rangle[35])}{\langle 13\rangle^2[45][56]\langle 1|2+3|4]\langle 3|1+2|6]s_{123}}+$$

$$\frac{[25]\langle 2|1+3|5](-13/3i\langle 12\rangle^2[15]^2+5/3i\langle 12\rangle[15]\langle 23\rangle[35]-1/3i\langle 23\rangle^2[35]^2)}{\langle 13\rangle[45][56]\langle 1|2+3|4]\langle 3|1+2|6]s_{123}}+$$

$$\frac{-719/32i\langle 12\rangle^3[12]^3[15]\langle 24\rangle\langle 26\rangle[35]\ldots\langle\!\langle 312\,\text{terms}\rangle\!\rangle\ldots+11/4i[16]\langle 24\rangle[24][25]\langle 26\rangle^3[36]\langle 46\rangle[56]}{\langle 1|2+3|4]\langle 3|1+2|6]\Delta_{135}^2}+$$

$$\frac{25i\langle 12\rangle^2[13]\langle 14\rangle[15]^3\ldots\langle\!\langle 13\,\text{terms}\rangle\!\rangle\ldots+5/4i[15]\langle 23\rangle\langle 24\rangle^2[25][34][35]}{[56]\langle 1|2+3|4]\langle 3|1+2|6]\Delta_{135}}+$$

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

$$\frac{-1/4i\langle 14\rangle\langle 16\rangle^2[23]^2[25]\langle 2|3+4|1]\Omega_{135}}{\langle 1|3+4|2]^3\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}}+$$

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

$$\frac{-3/16i\langle 14\rangle\langle 16\rangle^2[23]^2[25]\langle 2|3+4|1]^2\Omega_{135}}{\langle 1|3+4|2]^2\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}^2}+$$

$$\frac{\langle 16\rangle[23]\langle 2|3+4|1](-3/8i\langle 12\rangle[12]^2\langle 14\rangle\langle 16\rangle[35]\ldots\langle\!\langle 26\,\text{terms}\rangle\!\rangle\ldots+3/8i\langle 16\rangle[23]\langle 24\rangle^2[24][25])}{\langle 1|3+4|2]^2\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}}+$$

$$\frac{\langle 16\rangle^2[23]^2\langle 2|3+4|1](-1/2i[13]\langle 16\rangle-4i[23]\langle 26\rangle+9/2i[34]\langle 46\rangle)}{[34]\langle 56\rangle\langle 1|3+4|2]^2\langle 1|2+3|4]\langle 5|1+6|2]}+$$

$$\frac{\langle 12\rangle[12]\langle 2|3+4|1]\langle 4|1+2|3]\langle 6|1+2|5]\Pi_{135}\Pi_{351}\Pi_{513}(5/256is_{134}+5/256is_{234})}{\langle 1|3+4|2]\langle 3|1+2|4]\langle 5|1+2|6]\Delta_{135}^3}+$$

$$\frac{9/8i\langle 13\rangle^4[13]^5\langle 16\rangle[35]\langle 46\rangle\ldots\langle\!\langle 298\,\text{terms}\rangle\!\rangle\ldots-7/8i\langle 14\rangle[14]^3\langle 16\rangle^2[36]^2\langle 46\rangle^3[56]}{\langle 1|3+4|2]\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}^2}+$$

$$\frac{\Pi_{135}(-441/16i\langle 13\rangle^3[13]^4\langle 16\rangle[35]\langle 46\rangle\ldots\langle\!\langle 163\,\text{terms}\rangle\!\rangle\ldots+23/48i[14]^2\langle 16\rangle^2[36]^2\langle 46\rangle^3[56])}{\langle 1|3+4|2]\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}^2}+$$

$$\frac{133/6i\langle 13\rangle^2[13]^3\langle 16\rangle[35]\langle 46\rangle\ldots\langle\!\langle 173\,\text{terms}\rangle\!\rangle\ldots+1/8i[35]^2\langle 46\rangle\langle 56\rangle^3[56]^2}{\langle 1|3+4|2]\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}}+$$

$$\frac{2613/32i\langle 12\rangle^3[12]^2[13]^2[25]\langle 26\rangle\langle 46\rangle\ldots\langle\!\langle 683\,\text{terms}\rangle\!\rangle\ldots-53/48i[15]\langle 26\rangle[34][36]\langle 46\rangle^4[46]^2}{\langle 1|2+3|4]\langle 5|1+6|2]\Delta_{135}^2}$$