```
\frac{-3/2[23][35]\langle 46\rangle}{\langle 12\rangle\langle 56\rangle[56]s_{123}} +
                                                                                                                                                   \frac{-6[23][25]\langle 46\rangle}{\langle 13\rangle\langle 56\rangle[56]s_{123}} +
                                                                                                                                                   \frac{-9/2[15][23]\langle 46\rangle}{\langle 23\rangle\langle 56\rangle[56]s_{123}} +
                                                                                                                                      \frac{21/2[12]\langle 13\rangle\langle 34\rangle[35]^2}{\langle 13\rangle\langle 23\rangle[56]\langle 3|5+6|3]^2} +
                                                                                                                           \frac{7/2[35]\langle 36\rangle\langle 4|5+6|4]}{\langle 12\rangle\langle 23\rangle\langle 3|5+6|3]\langle 3|1+2|4]}+
                                                                                                                 \frac{7/2[34]\langle 36\rangle\langle 46\rangle\langle 4|1+2|4]}{\langle 12\rangle\langle 23\rangle\langle 56\rangle\langle 3|5+6|3|\langle 3|1+2|4|} +
                                                                                                                 \frac{7/2\langle 34\rangle[35][45]\langle 4|1+2|4]}{\langle 12\rangle\langle 23\rangle[56]\langle 3|5+6|3]\langle 3|1+2|4|} +
                                                                                                                                      \frac{5/2[12][35]\langle 36\rangle}{\langle 23\rangle\langle 3|5+6|3]\langle 3|1+2|4|} +
                                                                                                                              \frac{-6\langle 14\rangle\langle 36\rangle\langle 6|1+2|3]}{\langle 12\rangle\langle 13\rangle\langle 23\rangle\langle 56\rangle\langle 3|5+6|3|}
                                                                                                                              \frac{14\langle 36\rangle\langle 46\rangle\langle 1|2+4|3]}{\langle 12\rangle\langle 13\rangle\langle 23\rangle\langle 56\rangle\langle 3|5+6|3|} +
                                                                                                                    \frac{6\langle 14\rangle[35]\langle 36\rangle\langle 3|1+2|3]}{\langle 12\rangle\langle 13\rangle\langle 23\rangle\langle 56\rangle[56]\langle 3|5+6|3]} +
                                                                                                                                \frac{-6\langle 14\rangle\langle 34\rangle[35][45]}{\langle 12\rangle\langle 13\rangle\langle 23\rangle[56]\langle 3|5+6|3|} +
                                                                                                                                                   \frac{-7[35]\langle 46 \rangle}{\langle 12 \rangle \langle 23 \rangle \langle 3|5+6|3|} +
                                                                                                     \frac{-1/4[12][24]\langle 6|1+2|5](s_{123}-s_{124})}{\langle 3|1+2|4|^2\Delta_{12|34|56}}+
                                                                                                                                   \frac{1[12]\langle 13\rangle[24][35]\langle 36\rangle}{\langle 13\rangle\langle 3|1+2|3]\langle 3|1+2|4]^2}
                                                                                                                                   \frac{-1[12][24]\langle 34\rangle[35][45]}{[56]\langle 3|1+2|3]\langle 3|1+2|4|^2}+
                                                                           \frac{-3/16[12][24](4]1+2[3](6[1+2]5](s_{123}-s_{124})}{\langle 3|1+2|4|\Delta_{12}^2|34|56}+
                                                                           \frac{-1/2[15]^2\langle 23\rangle\langle 1|3+4|2]\langle 4|1+2|3](s_{234}-s_{134})}{\langle 12\rangle\langle 34\rangle[56]\langle 2|3+4|1]\langle 3|1+2|4]\Delta_{12|34|56}}+
                                                                        \frac{7/8[14][15]\langle 26\rangle\langle 1|3+4|2]\langle 4|1+2|3](s_{234}-s_{134})}{\langle 12\rangle\langle 56\rangle\langle 56|\langle 2|3+4|1]\langle 3|1+2|4|\Delta_{13|24|56}}+
                                                                                           \frac{-7/8[14]\langle 16\rangle[25]\langle 4|1+2|3](s_{{\small 234}}-s_{{\small 134}})}{\langle 12\rangle\langle 56\rangle[56]\langle 3|1+2|4]\Delta_{12}|34|56}+
                                                                                                                                \frac{-1/2[12]\langle 14\rangle[14]\langle 16\rangle[35]}{\langle 12\rangle\langle 3|1+2|4]\Delta_{12}|34|56} +
           \frac{[12](-1/2\langle13\rangle\langle14\rangle[14][35]\langle46\rangle\dots\langle44\,\mathrm{terms}\rangle)\dots+1/4\langle13\rangle[23]\langle24\rangle[25]\langle26\rangle)}{\langle12\rangle\langle34\rangle\langle3|1+2|4]\Delta_{12|34|56}}+
                                                                                              \frac{\langle 24 \rangle^2 [45][12][25](1\langle 13 \rangle [23] + 1\langle 14 \rangle [24])}{\langle 12 \rangle \langle 34 \rangle [56]\langle 3|1 + 2|4] \Delta_{12} |34|56} +
                  \frac{(s_{34} - s_{56})(1[23]\langle 34\rangle[45]\langle 46\rangle \ldots \langle \! (10\,\text{terms})\!\rangle \ldots - 5/8[23]\langle 34\rangle[35]\langle 36\rangle)}{\langle 12\rangle\langle 34\rangle\langle 3|1 + 2|4]\Delta_{12|34|56}} + \\
\frac{\langle 46 \rangle (s_{34} - s_{56}) (-13/8 | 24 ] \langle 45 \rangle | 45 \rangle | 46 \rangle .... (4 \operatorname{terms}) .... - 7/4 | 23 \rangle \langle 24 \rangle | 24 \rangle | (36) \rangle}{\langle 12 \rangle \langle 34 \rangle \langle 56 \rangle \langle 3 | 1 + 2 | 4 | \Delta_{12} | 34 | 56} + \frac{1}{2} | \frac{1
                  \frac{(s_{34} - s_{56})(-3/2\langle 23)[25]^2[36]\langle 46\rangle \ldots \langle\!\langle 6\, terms\rangle\!\rangle \ldots + 1\langle 24\rangle^2[24][25]^2)}{\langle 12\rangle\langle 34\rangle[56]\langle 3|1 + 2|4]\Delta_{12}[34|56} +
                                 \frac{1/2[12][24]\langle 46\rangle^2[56]\dots\langle \{10\,\mathrm{terms}\}\!\rangle\dots+9/4[13][25][26]\langle 36\rangle\langle 46\rangle}{\langle 34\rangle\langle 3|1+2|4]\Delta_{12|34|56}}+
                                  \frac{[25](1[15][26]\langle 46\rangle^2[46]\ldots\langle\!\langle 6\, terms\rangle\!\rangle\ldots + 1[15][25]\langle 45\rangle\langle 46\rangle[46])}{\langle 34\rangle[56]\langle 3|1+2|4]\Delta_{12}[34|56} +
                                                                                                                           \frac{7/4[12][25]\langle 46\rangle(s_{12}-s_{56})}{\langle 34\rangle\langle 3|1+2|4]\Delta_{12}|34|56}+
                                                                              \frac{[25][15](s_{\mbox{$1$}2} - s_{\mbox{$5$}6})(1[25]\langle 45\rangle + 2[26]\langle 46\rangle)}{\langle 34\rangle[56]\langle 3|1 + 2|4]\Delta_{\mbox{$12$}|34|56}} +
                                           \frac{[12]\langle 46\rangle(5/4[12]\langle 16\rangle[34]+7/4[13]\langle 16\rangle[24]-1/2[24][34]\langle 46\rangle)}{\langle 56\rangle\langle 3[1+2]4]\Delta_{12|34|56}}+
                                        -5/4[14][25]^2[36]\langle 46\rangle \dots \langle (9 \text{ terms}) \dots +1/2[12][24]\langle 34\rangle [35]^2 + [56]\langle 3]1+2|4|\Delta_{1,2|2,4|5,6}
                                                                                                                          \frac{-5/8[12][25][35](s_{12}{-}s_{34})}{[56]\langle 3|1{+}2|4]\Delta_{12}|34|56} +
                                             \frac{-1/2[12][23][35]\langle 36\rangle \dots \langle 4 \text{ terms} \rangle \dots + 13/8[12][25][35]\langle 56\rangle}{\langle 3|1+2|4|\Delta_{12}|34|56} +
                                                                                                              \frac{1/2\langle 12\rangle[12]^2\langle 13\rangle\langle 23\rangle[35]^2}{\langle 12\rangle\langle 23\rangle[56]\langle 3|1+2|3|^2\langle 3|1+2|4|} +
                                                                                                                           \frac{3/2[12]\langle 13\rangle[35]^2}{\langle 12\rangle[56]\langle 3|1+2|3|\langle 3|1+2|4|} +
                                                                                                                           \frac{-9/2[12]\langle 13\rangle[15][35]}{\langle 23\rangle[56]\langle 3|1+2|3]\langle 3|1+2|4|} +
                                                                                                                                      \frac{-7/2[12][25][35]}{[56]\langle 3[1+2]3]\langle 3[1+2|4]} +
                                                                                                                           \frac{-3/2[12][15]\langle 16\rangle\langle 24\rangle}{\langle 12\rangle\langle 34\rangle\langle 2|3+4|1|\langle 3|1+2|4|} +
                                                                                                                 \frac{-7/2[12]^2\langle 16\rangle\langle 24\rangle\langle 26\rangle}{\langle 12\rangle\langle 34\rangle\langle 56\rangle\langle 2[3+4]1]\langle 3[1+2|4]} +
                                                                                                     \frac{\langle 12 \rangle [25][15](3/2[13]\langle 34 \rangle - 2[12]\langle 24 \rangle)}{\langle 12 \rangle \langle 34 \rangle [56]\langle 2|3 + 4|1]\langle 3|1 + 2|4|} +
                                                                                                                                      \frac{2[25]\langle 26\rangle + 7/2[45]\langle 46\rangle}{\langle 12\rangle\langle 23\rangle\langle 3|1 + 2|4|} + \\
                                                                                                                              \frac{17/2[23]\langle 24\rangle\langle 36\rangle^2}{\langle 12\rangle\langle 23\rangle\langle 34\rangle\langle 56\rangle\langle 3|1+2|4|} +
                                                                                                                    \frac{\langle 36\rangle (-5[23]\langle 26\rangle -7/2[34]\langle 46\rangle)}{\langle 12\rangle \langle 23\rangle \langle 56\rangle \langle 3|1+2|4|} +
                                                                                                                              \frac{-7/2[23]\langle 24\rangle\langle 36\rangle[45]}{\langle 12\rangle\langle 23\rangle\langle 56\rangle[56]\langle 3|1+2|4|} +
                                                                                \frac{2\langle 23\rangle[25][35]-2\langle 24\rangle[25][45]-7/2\langle 34\rangle[35][45]}{\langle 12\rangle\langle 23\rangle[56]\langle 3|1+2|4|}+
                                                                                                                                       \frac{-13/2\langle 46\rangle\langle 6|1+3|2]}{\langle 12\rangle\langle 34\rangle\langle 56\rangle\langle 3|1+2|4]} +
                                                                                                                    \frac{3/8[12][23]\langle 4|1+2|3]\langle 6|1+2|5]}{\Delta^2_{12|34|56}} +
                                                                                                                                      \frac{-21/2[12]\langle 24 \rangle^{2}[25]^{2}}{\langle 23 \rangle \langle 34 \rangle [56]\langle 2|5+6|2|^{2}} +
                                                                                                                 \frac{-7/2[15]\langle 24 \rangle^2 \langle 6|1+5|2]}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle \langle 2|3+4|1]\langle 2|5+6|2|} +
                                                                                                        \frac{-7/2\langle 12\rangle[12][15]\langle 24\rangle^{2}[25]}{\langle 12\rangle\langle 23\rangle\langle 34\rangle[56]\langle 2|3+4|1]\langle 2|5+6|2|} +
                                                                                                                 \frac{-7/2[13]\langle 24\rangle\langle 26\rangle\langle 6|1+5|2]}{\langle 12\rangle\langle 23\rangle\langle 56\rangle\langle 2|3+4|1|\langle 2|5+6|2|} +
                                                                                                                             \frac{7/2\langle 24\rangle\langle 46\rangle\langle 6|1+5|2]}{\langle 12\rangle\langle 23\rangle\langle 34\rangle\langle 56\rangle\langle 2|5+6|2|} +
                                                                                                                              \frac{-5[23]\langle 24\rangle[25]\langle 26\rangle}{\langle 12\rangle\langle 23\rangle\langle 56\rangle[56]\langle 2|5+6|2|} +
                                                                                                                              \frac{7/2[15]\langle 24 \rangle^{2}[25]}{\langle 12 \rangle \langle 23 \rangle \langle 34 \rangle [56]\langle 2|3+4|1]} +
                                                                                                                                                    \frac{8\langle 16\rangle\langle 46\rangle}{\langle 12\rangle\langle 13\rangle\langle 23\rangle\langle 56\rangle} +
                                                                                                                                                    \frac{-155/27\langle 46\rangle^2}{\langle 12\rangle\langle 23\rangle\langle 34\rangle\langle 56\rangle} +
                                                                                                                                                      \frac{6[35]\langle 46\rangle}{\langle 12\rangle\langle 23\rangle\langle 56\rangle[56]}
```