```
\frac{-1/2(s_{23}-s_{14})(s_{13}-s_{24})\langle 36\rangle^2\langle 4|1+2|3|[34]}{\langle 56\rangle\Delta_{14}|23|56\langle 1|2+3|4]\langle 2|1+4|3|^2}+
\frac{(s_{123} - s_{234})\langle 3|1 + 4|2|(-39/16[35]\langle 34\rangle\langle 36\rangle[24]\langle 12\rangle[13]\ldots\langle(11\,\mathrm{terms})\rangle\ldots - 73/32[35][12]\langle 23\rangle\langle 46\rangle\langle 13\rangle[34])}{\langle 1|2 + 3|4|\langle 2|1 + 4|3|\Delta_{14}^2|23|56} + \frac{(s_{123} - s_{234})\langle 3|1 + 4|2|(-39/16[35]\langle 34\rangle\langle 36\rangle[24]\langle 12\rangle[13]\ldots\langle(11\,\mathrm{terms})\rangle\ldots - 73/32[35][12]\langle 23\rangle\langle 46\rangle\langle 13\rangle[34])}{\langle 1|2 + 3|4|\langle 2|1 + 4|3|\Delta_{14}^2|23|56\rangle} + \frac{(s_{123} - s_{234})\langle 3|1 + 4|2|(-39/16[35]\langle 34\rangle\langle 36\rangle[24]\langle 12\rangle[13]\ldots\langle(11\,\mathrm{terms})\rangle\ldots - 73/32[35][12]\langle 23\rangle\langle 46\rangle\langle 13\rangle[34])}{\langle 1|2 + 3|4|\langle 2|1 + 4|3|\Delta_{14}^2|23|56\rangle} + \frac{(s_{123} - s_{234})\langle 3|1 + 4|2|(-39/16[35]\langle 34\rangle\langle 36\rangle[24]\langle 12\rangle[13]\ldots\langle(11\,\mathrm{terms})\rangle\ldots - 73/32[35][12]\langle 23\rangle\langle 46\rangle\langle 13\rangle[34])}{\langle 1|2 + 3|4|\langle 2|1 + 4|3|\Delta_{14}^2|23|56\rangle} + \frac{(s_{123} - s_{234})\langle 3|1 + 4|2|(-39/16[35]\langle 34\rangle\langle 36\rangle[24]\langle 12\rangle[34])}{\langle 1|2 + 3|4|\langle 2|1 + 4|3|\Delta_{14}^2|23|56\rangle} + \frac{(s_{123} - s_{234})\langle 3|1 + 4|2|(-39/16[35]\langle 34\rangle\langle 36\rangle[24]\langle 12\rangle[34])}{\langle 1|2 + 3|4|\langle 2|1 + 4|3|\Delta_{14}^2|23|56\rangle} + \frac{(s_{123} - s_{234})\langle 3|1 + 4|2|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|23|\beta_{14}^2|2
                                                                                                                                                                             \frac{\frac{1/8\langle 34\rangle\langle 2|1+4|5](s_{23}-s_{56})\langle 3|1+4|2]\langle 46\rangle[23]}{\langle 14\rangle\Delta_{14|23|56}^2\langle 2|1+4|3]}+
                                                                                                                                                                                            \frac{-3/8(s_{23}-s_{14})\langle 3|1+4|2|s_{134}\langle 46\rangle^2[14]}{\langle 56\rangle\Delta_{14|23|56}^2\langle 2|1+4|3]}+
                                                                                         \frac{\langle 46 \rangle [24] (1/4[13] \langle 23 \rangle \langle 46 \rangle [24] \langle 13 \rangle \ldots \langle 3 \, \text{terms} \rangle \ldots -1/4 \langle 14 \rangle \langle 36 \rangle [14] [24] \langle 24 \rangle )}{\langle 56 \rangle \Delta_{14} [23] 56 \langle 1[2+3|4] \langle 2[1+4|3]} +
                                                                                                    \frac{(s_{23} - s_{14})\langle 36 \rangle \langle -1/2 \langle 46 \rangle [24]^2 \langle 24 \rangle \dots \langle \! \langle 5 \, \text{terms} \rangle \! \rangle \dots -1[12] \langle 46 \rangle \langle 13 \rangle [34] \rangle}{\langle 56 \rangle \Delta_{14} [23] 56 \langle 1[2 + 3] 4] \langle 2[1 + 4|3]} + \\
                                                                                                                                   \frac{\langle 46\rangle(3/4[12]\langle 34\rangle\langle 36\rangle[34]\ldots\langle\!\langle 4\,\mathrm{terms}\rangle\!\rangle\ldots+1\langle 46\rangle[24]\langle 34\rangle[14])}{\langle 56\rangle\Delta_{14}|23|56\langle^{2}|1+4|3]}+
                                                                                                                                                                                                                                      \frac{1/4\langle 46 \rangle \langle 34 \rangle [24]^2 \langle 36 \rangle}{\langle 56 \rangle \Delta_{14|23|56} \langle 1|2+3|4]} +
                                                                                                                                                                                                                                              (123456 \rightarrow -\overline{432165})+
                                                                                                                                                                                            \frac{3[35]\langle 3|1+4|2]\langle 26\rangle[13](s_{\mbox{$124$}}-s_{\mbox{$134$}})\langle 24\rangle}{\Delta_{\mbox{$14$}}|23|56}\langle 2|1+4|3]^3}+
                                                                                                                                                                                  \frac{5/2[35]\langle 3|1+4|2]^2\langle 26\rangle[13](s_{{\small 124}}-s_{{\small 134}})\langle 24\rangle}{\Delta^2_{14}|23|56}\langle 2|1+4|3|^2}+
                                                                                                                \frac{1/2[12][25]\langle 26\rangle[24]\langle 24\rangle^2\ldots\langle\!(28\,\mathrm{terms})\!\rangle\ldots-1[35]\langle 34\rangle^2\langle 36\rangle[13][34]}{\Delta_{14}|23|56\langle 2|1+4|3]^2}+
                                                                                                           \frac{[35][13]\langle 13\rangle (s_{13}-s_{24})\langle 1[13]\langle 13\rangle (36)+1[12]\langle 26\rangle \langle 13\rangle-1\langle 46\rangle \langle 23\rangle [24])}{\Delta_{14}[23]56\langle 1[2+3]4]\langle 2[1+4|3]^2}+
                                                                                                        \frac{(s_{124} - s_{134})(-1[12]\langle 46 \rangle \langle 23 \rangle [35] \ldots \langle 9 \text{ terms} \rangle \ldots + 1[12][45]\langle 46 \rangle \langle 24 \rangle)}{\Delta_{14} [23]56 \langle 2|1 + 4|3]^2} + \\
                                                                                                                                                                                                                     \begin{matrix} -3/2\langle 14\rangle[14][15]\langle 16\rangle\dots\langle\!\langle\!\langle 6\,\text{terms}\rangle\!\rangle\dots-3/2\langle 26\rangle[25]\langle 23\rangle[23]\rangle\\ \Delta_{14}|23|56\langle 1|2+3|4]\langle 2|1+4|3]^2 \\ \end{matrix} +
                                                          \underline{(s_{13} - s_{24})(s_{124} - s_{134})(-3/2\langle 14 \rangle [14][15]\langle 16 \rangle}
                                                                                                                                                                                                                                                                 \frac{-2\langle 6|1+3|5]\langle 24\rangle}{\langle 12\rangle\langle 2|1+4|3|^2} +
                                                                                                                                                                                                                                                                  \frac{2\langle 24\rangle[15]\langle 16\rangle}{\langle 12\rangle\langle 2|1{+}4|3]^2} +
                                                                                                                                                                                                                                                                  \frac{2\langle 14\rangle\langle 26\rangle[15]}{\langle 12\rangle\langle 2|1{+}4|3]^2} +
                                                                                                                                                                                                                                                                    \frac{-2\langle 46\rangle[13]\langle 36\rangle}{\langle 56\rangle\langle 2|1+4|3|^2} +
                                                                                                                                                                                                                                                                    \frac{2[25][15]\langle 24\rangle}{[56]\langle 2|1+4|3]^2}+
                                                                                       \frac{-35/32s_{\mathbf{23}}\langle 6|1+4|5|\langle 3|1+4|2|(s_{15}+s_{16}+s_{45}+s_{46})(s_{124}-s_{134})\langle 4|2+3|1]}{\Delta^3_{14[23]56}\langle 2|1+4|3|}+
                                                                                                                                                                         \frac{127/64(s_{13}-s_{24})(6|1+4|5]\langle 3|1+4|2]\langle 4|2+3|1]}{\langle 2|1+4|3]\Delta^2_{14}|23|56}+
                                                                                                                                           \frac{-7/32(s_{123}+s_{234})\langle 6|1+4|5]\langle 3|1+4|2]\langle 4|2+3|1]\langle 1|2-3|4]}{\langle 1|2+3|4]\langle 2|1+4|3]\Delta^2_{14|23|56}}+
                            \frac{(s_{124} - s_{134})(-125/32[35]\langle 34)[12]\langle 23\rangle\langle 46\rangle[24]\ldots\langle\!\langle 42\,\mathrm{terms}\rangle\!\rangle\ldots + 3/16\langle 34\rangle\langle 46\rangle[25][14][24]\langle 24\rangle)}{\langle 2|1+4|3|\Delta_{14}^{2}|23|56} + \frac{(s_{124} - s_{134})(-125/32[35]\langle 34)[12]\langle 24\rangle)}{\langle 2|1+4|3|\Delta_{14}^{2}|23|56} + \frac{(s_{124} - s_{134})(-125/32[35]\langle 34)[12]\langle 24\rangle)}{\langle 2|1+4|3|\Delta_{14}^{2}|23|56} + \frac{(s_{124} - s_{134})(-125/32[35]\langle 34\rangle)(-125/32[35]\langle 34\rangle)(-125/32[35/32[35]\langle 34\rangle)(-125/32[35]\langle 34\rangle)(-125/32[35/32[35]\langle 34\rangle)(-125/32[35]\langle 34\rangle)(-125/32[35/32[35]\langle 34\rangle)(-125/32[35]\langle 34\rangle)(-125/32[3
                               \frac{(s_{123} - s_{234})(s_{124} - s_{134})(1/8[14]^2 \langle 14 \rangle^2 [25] \langle 36 \rangle \dots \langle 21 \, \text{terms} \rangle \dots - 5/64[12]^2 \langle 26 \rangle \langle 13 \rangle^2 [35])}{\langle 1|2 + 3|4| \langle 2|1 + 4|3| \Delta_{14}^2 |23| 56} + \frac{(s_{123} - s_{234})(s_{124} - s_{134})(1/8[14]^2 \langle 14 \rangle^2 [25] \langle 36 \rangle \dots \langle 21 \, \text{terms} \rangle \dots - 5/64[12]^2 \langle 26 \rangle \langle 13 \rangle^2 [35])}{\langle 1|2 + 3|4| \langle 2|1 + 4|3| \Delta_{14}^2 |23| 56}
                                                                                                                                                                              \frac{-1/2(s_{13}-s_{24})(s_{23}-s_{56})[15]\langle 16\rangle[23]\langle 13\rangle^2}{\langle 14\rangle\Delta_{14}|23|56}\langle 1|2+3|4|^2\langle 2|1+4|3]}+
                                                                             \frac{\langle 13 \rangle (s_{13} - s_{24}) (1/2[35]\langle 46 \rangle \langle 23 \rangle [24]^2 \dots \langle \! (7\, \mathrm{terms}) \! \rangle \dots - }{\Delta_{14} |23| 56} \langle 1|2 + 3|4|^2 \langle 2|1 + 4|3|
                                                                                                                                                                                                                                                                                                                                                                                                  -3/2[12][45]\langle 26\rangle[23]\langle 13\rangle)
                                                                                \frac{\langle 13\rangle (s_{13}-s_{24})(s_{123}-s_{234})(1[25][14]\langle 16\rangle -1/2[12][45]\langle 16\rangle +3/2\langle 46\rangle [45][24]\rangle}{\Delta_{14}[23]56\langle 1[2+3]4]^2\langle 2[1+4]3]} +
                                                                                                                    \frac{\langle 46 \rangle [23] \langle 13 \rangle^2 (-1/2[35] \langle 34 \rangle [14] + 1/2[12] \langle 12 \rangle [15] - 1/2[12] [45] \langle 24 \rangle)}{\langle 14 \rangle \Delta_{14} [23] 56 \langle 1|2 + 3|4] \langle 2|1 + 4|3]} +
                                                                                                                \frac{\langle 43\rangle \langle 46\rangle (s_{23}-s_{56}) \langle -1[25][13]\langle 13\rangle +1[12]\langle 13\rangle [35]+1/2[45]\langle 34\rangle [23])}{\langle 14\rangle \Delta_{14}|23|56\langle 1|2+3|4]\langle 2|1+4|3]}+
                                                                                         \frac{[24]\langle 23\rangle[15](1/2\langle 46\rangle[24][13]\langle 13\rangle-1/2[12][13]\langle 13\rangle\langle 16\rangle+1/2[12]\langle 14\rangle[24]\langle 26\rangle)}{[14]\Delta_{14}|23|56}(1|2+3|4)\langle 2|1+4|3]}+
                                                                                                           \frac{-3\langle 14\rangle^2[25][14]^2\langle 36\rangle\dots\langle 57\ \mathrm{terms}\rangle\dots-3/2\langle 23\rangle[23]\langle 36\rangle[25][13]\langle 13\rangle}{\Delta_{14}[23]56^{(1]2+3]4}]\langle 2[1+4]3]}+
                                                                                                                                                                    \frac{-2\langle 46\rangle[45]\langle 13\rangle+4\langle 13\rangle[15]\langle 16\rangle+47/8[25]\langle 12\rangle\langle 36\rangle}{\langle 12\rangle\langle 1|2+3|4|\langle 2|1+4|3|}+
                                                                                                                                                                                                                                             \frac{4[12]\langle 16\rangle\langle 36\rangle}{\langle 56\rangle\langle 1|2+3|4]\langle 2|1+4|3|}+
                                                                                                                                                                                                                                             \frac{-4[23]\langle 36 \rangle^2}{\langle 56 \rangle \langle 1|2+3|4]\langle 2|1+4|3|} +
                                                                                                                                                                                                                                              \frac{-4[45]\langle 34\rangle[25]}{[56]\langle 1|2+3|4]\langle 2|1+4|3]}+
                                                                                                                                                                                                                                              \frac{4\langle 23\rangle[25]^2}{[56]\langle 1|2+3|4]\langle 2|1+4|3]} +
                                      \frac{\langle 13 \rangle (1/2|35|\langle 34 \rangle |24|^2 \langle 36 \rangle \ldots \langle \! \langle 7\, terms \rangle \! \ldots + 1/2|12||25|\langle 26 \rangle |24|\langle 13 \rangle )}{\Delta_{14} |23|56 \langle 1|2+3|4|^2} + \\
                                                                                                                                                                                                                                             \frac{2[24]\langle 13\rangle^2[15]\langle 16\rangle}{\langle 12\rangle\langle 14\rangle[14]\langle 1|2+3|4]^2} +
                                                                                                                                                                                                                               \frac{34/3[12]\langle 1|2+3|5]\langle 13\rangle^2[15]}{\langle 12\rangle[56]\langle 1|2+3|1]^2\langle 1|2+3|4]} + \\
                                                                                                                                                                                                                       \frac{6[12]\langle 13\rangle^2[15]\langle 16\rangle}{\langle 12\rangle\langle 14\rangle[14]\langle 1[2+3]1]\langle 1[2+3]4]} +
                                                                                                                                                                                                                       \frac{4[12]\langle 13\rangle^{2}[15]\langle 16\rangle}{\langle 12\rangle\langle 14\rangle[14]\langle 1[5+6]1]\langle 1[2+3]4|} +
                                                                                                                                                                                                                       \frac{12[12]\langle 46\rangle[24]^2\langle 16\rangle}{[23][34]\langle 56\rangle\langle 1|5+6|1]\langle 1|2+3|4|} +
                                                                                                                                                                                                                                   \begin{array}{c} 12[12][24]\langle 16\rangle\langle 36\rangle \\ \overline{|34]\langle 56\rangle\langle 1|5+6|1]\langle 1|2+3|4]} \end{array}
```