```
\langle 24 \rangle (s_{124} - s_{134}) [35] (351 [13] [24] \langle 24 \rangle \langle 36 \rangle \dots \\ \langle 10 \, \mathrm{terms} \rangle \dots -135 / 2 [13] \langle 14 \rangle [14] \langle 36 \rangle) - 10 \, \mathrm{terms} 
                                                                                                                                                                                                                                                                                                                                                               (2|1+4|3]^3\Delta_{14|23|56}
                                                                                                                                                                 \frac{[35]\langle 4|2+3|1](s_{124}-s_{134})(s_{15}+s_{16}+s_{45}+s_{46})s_{56}(-81/8|24|\langle 26\rangle\langle 24\rangle-81/8|13|\langle 12\rangle\langle 36\rangle)}{\langle 2|1+4|3|^3\Delta_{23|14|56}^2|
                                                                                                                                                                                                    \frac{[13][35](297/2[34]^2\langle23\rangle\langle34\rangle^2\langle46\rangle\ldots\langle14\,\mathrm{terms}\rangle\ldots-81\langle12\rangle[14]^2\langle34\rangle\langle46\rangle\langle14\rangle)}{\langle2|1+4|3|^3\Delta_{23}|14|56}+
                                                                                                                                                                                                                                       \frac{\langle 24\rangle[35](594[34]^2\langle 34\rangle\langle 46\rangle\ldots\langle\!\langle 6\,\mathrm{terms}\rangle\!\rangle\ldots+1188\langle 23\rangle[23][34]\langle 46\rangle\rangle}{\langle 1|2+4|3|\langle 2|1+4|3|^3}+
                                                            \frac{s_{14}s_{56}(s_{123}-s_{234})[14](23)(s_{124}-s_{134})(46)[35](135/8(34)[23]+135/8(14)[12])}{\langle 2[1+4|3]^2\Delta_{14}^3[23]56}+
                                                                                                                                                                                 \frac{-144[24]^3\langle 26\rangle\langle 24\rangle^4[25][12]\ldots\langle\!(72\,\mathrm{terms})\!)\ldots -189/4\langle 23\rangle^2[23]^2[13]^2\langle 34\rangle[45]\langle 46\rangle\langle 13\rangle}{\langle 2|1+4|3|^2\Delta_{14[23]56}^2} +
                                                                                                          \frac{(s_{124} - s_{134})(4077/4[24]\langle 12\rangle[35][13]^2\langle 34\rangle^2\langle 36\rangle\langle 14\rangle\dots\langle (51\,\mathrm{terms})\!)\dots + 63/8\langle 23\rangle[23]^2[13]\langle 24\rangle\langle 34\rangle[45]\langle 46\rangle\langle 13\rangle)}{\langle 14\rangle\langle 2|1+4|3|^2\Delta_{14}^2[23]56} + \frac{(s_{124} - s_{134})(4077/4[24]\langle 12\rangle[35][13]^2\langle 34\rangle^2\langle 36\rangle\langle 14\rangle\dots\langle (51\,\mathrm{terms})\!)\dots + 63/8\langle 23\rangle[23]^2[13]\langle 24\rangle\langle 34\rangle[45]\langle 46\rangle\langle 13\rangle)}{\langle 14\rangle\langle 2|1+4|3|^2\Delta_{14}^2[23]56} + \frac{(s_{124} - s_{134})(4077/4[24]\langle 12\rangle[35][13]^2\langle 34\rangle^2\langle 36\rangle\langle 14\rangle\dots\langle (51\,\mathrm{terms})\!)\dots + 63/8\langle 23\rangle[23]^2[13]\langle 24\rangle\langle 34\rangle[45]\langle 46\rangle\langle 13\rangle)}{\langle 14\rangle\langle 2|1+4|3|^2\Delta_{14}^2[23]56} + \frac{(s_{124} - s_{134})(4077/4[24]\langle 12\rangle[35][13]^2\langle 34\rangle(36)\langle 14\rangle\dots\langle (51\,\mathrm{terms})\!)\dots + 63/8\langle 23\rangle[23]^2[13]\langle 24\rangle\langle 34\rangle[45]\langle 46\rangle\langle 13\rangle)}{\langle 14\rangle\langle 2|1+4|3|^2\Delta_{14}^2[23][23]^2[13]\langle 24\rangle\langle 34\rangle[45]\langle 46\rangle\langle 13\rangle)}
                                                                                                                                                                           \frac{-111105/8\langle 12\rangle[13|[14|]25]\langle 34\rangle\langle 46\rangle\langle 14\rangle\dots\langle 53\,\text{terms}\rangle\dots+540[23|[24|]35]\langle 24\rangle^2\langle 34\rangle\langle 36\rangle}{\langle 14\rangle\langle 2|1+4|3|^2\Delta_{14}|23|56}+
                                                                                                                                                                                                      \frac{-9/4\langle12\rangle^2[13]\langle34\rangle[12]\langle36\rangle[15]\ldots\langle\!(19\,\mathrm{terms})\!)\ldots+9/8[34]\langle24\rangle[14]\langle34\rangle^2[45]\langle46\rangle}{\langle23\rangle\langle2[1+4]3]^2\Delta_{14|23|56}}+
                                                                                                                                                                                                                    \frac{-27\langle 26\rangle[13]\langle 14\rangle^2\langle 13\rangle[15]\ldots\langle\!\langle 23\,\mathrm{terms}\rangle\!\rangle\ldots+603\langle 12\rangle[35][13]\langle 34\rangle\langle 46\rangle\langle 13\rangle}{\langle 14\rangle\langle 23\rangle\langle 1[2+4]3]\langle 2[1+4]3|^2}+
                                                                                                                                                                                                                                                                                                                                           \frac{36\langle 26\rangle\langle 4|1+2|3][13][45]\langle 13\rangle}{\langle 1|2+4|3|\langle 2|1+4|3|^2\langle 2|1+3|4|}
                                                                                                                                                                                                                                             \underline{\langle 26\rangle[35](s_{14}-s_{23})(603[24]\langle 24\rangle-639/2\langle 14\rangle[14]-603/2\langle 23\rangle[23])}_{-}
                                                                                                                                                                                                                                                                                                                                           \langle 1|2+4|3]\langle 2|1+4|3]^2\langle 2|1+3|4|
                                                                                                                                                                                          45/64(s_{15} + s_{16} + s_{45} + s_{46})s_{23}\langle 3|1 + 4|2|\langle 4|2 + 3|5|\langle 46\rangle(s_{124} - s_{134})(s_{123} - s_{234}) + (s_{123} - s_{134})(s_{123} 
                                                                                                                                                                                                                                                                                                                                                       \frac{14}{\langle 14 \rangle \Delta_{14|23|56}^{3} \langle 2|1+4|3|}
                                                                                                                   \langle 4|2+3|1]\langle 3|1+4|2]s_{\mathbf{56}}(-7695/32[24]\langle 12\rangle[35][13]\langle 34\rangle\langle 36\rangle\dots \\ \langle (13\,\mathrm{terms})\rangle\dots +945/32[34]\langle 23\rangle[35][12]\langle 46\rangle\langle 13\rangle) + (13\,\mathrm{terms})\langle (13\,\mathrm{terms})\rangle\dots \\ \langle (13\,\mathrm{terms})\rangle\dots + (13\,\mathrm{terms
                                                                                                                                                                                                                                                                                                                                                                  \langle 2|1+4|3]\Delta^3_{14|23|56}
                                                                                                                           \frac{(4|2+3|1]\langle 3|1+4|2](s_{14}-s_{23})(-945/2[24]\langle 12\rangle[35][13]\langle 34\rangle\langle 36\rangle\ldots\langle\langle 3\,\mathrm{terms}\rangle\rangle\ldots+945/4\langle 46\rangle\langle 14\rangle^2[45][14]^2)}{\langle 2|1+4|3]\Delta_{14}^3|_{23}|_{56}}+
                                                                                                                              \underline{\langle 4|2+3|1]\langle 3|1+4|2]s_{56}(18765/64[24]\langle 12\rangle[35][13]\langle 34\rangle\langle 36\rangle\dots\langle 37\,\mathrm{terms}\rangle\rangle\dots-1485/16\langle 23\rangle^2[23]^2\langle 36\rangle[35])}_{\perp}
                                                                                                                                                                                                                                                                                                                                                                  \langle 2|1+4|3]\Delta^3_{14|23|56}
                                                                                                               \langle 4|2+3|1|(s_{124}-s_{134})s_{56}(-5535/16[14][45][12]\langle 36\rangle\langle 14\rangle^2\ldots\langle\!\langle 6\,\mathrm{terms}\rangle\!\rangle\ldots +1485/16[23]\langle 23\rangle\langle 12\rangle[25][12]\langle 36\rangle)\perp (4|2+3|1)(s_{124}-s_{134})s_{56}(-5535/16[14][45][12]\langle 36\rangle\langle 14\rangle^2\ldots\langle\!\langle 6\,\mathrm{terms}\rangle\!\rangle\ldots +1485/16[23]\langle 23\rangle\langle 12\rangle[25][12]\langle 36\rangle\rangle + (4|2+3|1)(s_{124}-s_{134})s_{56}(-5535/16[14][45][12]\langle 36\rangle\langle 14\rangle^2\ldots\langle\!\langle 6\,\mathrm{terms}\rangle\!\rangle\ldots +1485/16[23]\langle 23\rangle\langle 12\rangle[25][12]\langle 36\rangle\rangle + (4|2+3|12)(s_{124}-s_{134})s_{136}(-5535/16[14][45][12]\langle 36\rangle\langle 14\rangle^2\ldots\langle\!\langle 6\,\mathrm{terms}\rangle\!\rangle\ldots +1485/16[23]\langle 23\rangle\langle 12\rangle[25][12]\langle 36\rangle\rangle + (4|2+3|12)(s_{124}-s_{134})s_{136}(-5535/16[14][45][12]\langle 36\rangle\langle 14\rangle^2\ldots\langle\!\langle 6\,\mathrm{terms}\rangle\!\rangle\ldots +1485/16[23]\langle 23\rangle\langle 12\rangle[25][12]\langle 36\rangle\rangle + (4|2+3|12)(s_{124}-s_{134})s_{136}(-5535/16[14][45][12]\langle 36\rangle\rangle + (4|2+3|12)(s_{134}-s_{134})s_{136}(-5535/16[14][45][12]\langle 36\rangle\rangle + (4|2+3|12)(s_{134}-s_{134})s_{136}(-5535/16[14][45][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][45](s_{134}-s_{134})s_{136}(-5535/16[14][55](s_{134}-s_{134})s_{136}(-5535/16[14][55](s_{134}-s_{134})s_{136}(-5535/16[14][55](s_{134}-s_{134})s_{136}(-5535/16[14][55](s_{134}-s_{134})s_{136}(-5535/16[14][55](s_{134}-
                                                                                                                                                                                                                                                                                                                                                                  \frac{\sqrt{2|1+4|3}\Delta_{14|23|56}^{3}}{\sqrt{2|1+4|3}\Delta_{14|23|56}^{3}}
                                                                                                                                      \underline{[12]\langle 3|1+4|2]s_{56}(s_{123}-s_{234})\langle 315/16[24]\langle 26\rangle\langle 24\rangle^2[25]\ldots\langle\!\langle 3\,\mathrm{terms}\rangle\!\rangle\ldots-135/2\langle 26\rangle\langle 24\rangle[14][25]\langle 14\rangle\rangle}
                                                                                                                                                                                                                                                                                                                                                                  \langle 2|1+4|3]\Delta^3_{14|23|56}
                                                                                                                   \langle 2|1+4|3]\Delta^{3}_{14|23|56}
                                                                                                             \frac{[12][45]\langle 4|2+3|1](s_{124}-s_{134})(s_{14}-s_{23})(675/8\langle 14\rangle^2[14]\langle 36\rangle+945/8\langle 13\rangle\langle 26\rangle\langle 14\rangle[12]-135/4[34]\langle 34\rangle\langle 13\rangle\langle 46\rangle)}{\langle 2|1+4|3]\Delta^3_{14}[23]56}+
\langle 3|1+4|2|(s_{123}-s_{234})(s_{14}-s_{23})(-945/8[24]\langle 26\rangle\langle 24\rangle^2[25][12]-135/4[24][13]\langle 24\rangle^2[25]\langle 36\rangle+675/4\langle 23\rangle\langle 12\rangle[13][25][12]\langle 46\rangle-135\langle 12\rangle[35]\langle 24\rangle[12]^2\langle 36\rangle)
                                                                                                                                                                                                                                                                                                                                                                 \frac{100}{(2|1+4|3]\Delta_{14|23|56}^{3}}
                                                                                                                                                                                                                                                                                                \frac{9/16[23]^2\langle 12\rangle(s_{{\small 23}}-s_{{\small 56}})\langle 34\rangle^2\langle 3|1+4|5]\langle 46\rangle}{\langle 14\rangle^2\Delta_{{\small 14}|23|56}^2\langle 2|1+4|3]}+
                                                                                                                                                         \frac{-14355/16[14]^3[25]\langle 34\rangle\langle 46\rangle\langle 14\rangle^3\ldots\langle 130\,\mathrm{terms}\rangle\ldots+7119/16\langle 23\rangle[23]^2[13]\langle 34\rangle^2[45]\langle 46\rangle\langle 13\rangle}{\langle 14\rangle\langle 2|1+4|3]\Delta_{14|23|56}^2}+
                                                                                                                                                                                                               \frac{-9/8\langle 12\rangle^3\langle 34\rangle[12]^3\langle 36\rangle[15]\ldots\langle 40\,\mathrm{terms}\rangle\ldots+9/32[34]^2[13]\langle 34\rangle^4[45]\langle 36\rangle}{\langle 23\rangle\langle 2|1+4|3]\Delta_{14|23|56}^2}+
                                                                                                                                                                    \frac{\langle 3|1+4|2|\langle 46\rangle (-45/8\langle 12\rangle[13]^2[25]\langle 34\rangle\langle 13\rangle \dots \langle 6\, \text{terms}\rangle \dots -27/16\langle 23\rangle[23]|35||13|\langle 34\rangle\langle 13\rangle)}{\langle 14\rangle\langle 2|1+4|3]\Delta_{23}^2|14|56}+
                                                                                                                                                                                                                                                                                                                                                         -9/4[23][35]\langle 34\rangle^2\langle 46\rangle\langle 13\rangle
                                                                                                                                                                                                                                                                                                                                                   \frac{(14)^2\langle 2|1+4|3]\Delta_{23|14|56}}{(14)^2\langle 2|1+4|3]\Delta_{23|14|56}}
                                                                                                                                                                                                                                                                                                                                                                  \frac{-18\langle 46\rangle\langle 1|3+4|2][35]}{\langle 1|2+4|3|^2\langle 2|1+4|3|} +
                                                                                                                                                                                                                                                                                                                                      \frac{18\langle 1|3\!+\!4|2]\langle 26\rangle(s_{14}\!-\!s_{23})[35]}{\langle 1|2\!+\!4|3]^2\langle 2|1\!+\!3|4]\langle 2|1\!+\!4|3]}\!+\!
                                                                                                                                                                                                                                                                                                                                              \frac{-36[13]\langle 14\rangle [45]\langle 36\rangle}{\langle 1|2\!+\!4|3]\langle 2|1\!+\!4|3]\langle 2|1\!+\!3|4]} +
                                                                                                                                                                                                                                                                                   [12](46)(34)(3|1+4|2](45/8(13)[35]+45/8(12)[25])_{+}
                                                                                                                                                                                                                                                                                                                                                                               \overline{\langle 14 \rangle \Delta^2_{23|14|56}}
                                                                                                                                                                                                                                                                                                                                                                 (123456 \rightarrow \overline{432165}) +
                                                                                                                                                                                                                                                                                     \frac{-27 s_{56} \langle 26 \rangle [35] [13] (s_{24} - s_{13}) \langle 24 \rangle (s_{124} - s_{134})}{\langle 2|1 + 4|3|^4 \Delta_{23|14|56}} +
                                                                                                                                                      -945/256s_{\color{red}56}(6|1+4|5|(4|2+3|1]s_{23}(3|1+4|2](s_{15}+s_{16}+s_{45}+s_{46})(s_{124}-s_{134})(s_{123}-s_{234})
                                                                                                                                                                                                                                                                                                                                                                 \Delta^4_{14|23|56}\langle 2|1+4|3]
```