```
\frac{-1/3i[12][24]^2\langle 26\rangle^2\langle 2|1+6|4]^2s_{345}}{\langle 12\rangle[34][45]\langle 2|1+6|2]^3\langle 2|1+6|3]\langle 2|1+6|5]}
                                                                                                                                                                                  \frac{1/2i[12][13]\langle 16\rangle[24]\langle 26\rangle\langle 2|1+6|4]^3}{\langle 12\rangle[34][45]\langle 2|1+6|2]^2\langle 2|1+6|3]^2\langle 2|1+6|5]}
                                                                                                                                                       \frac{[12][24]\langle 26\rangle\langle 2|1+6|4]^2(-4/3i[14]\langle 16\rangle-5/6i[24]\langle 26\rangle)}{\langle 12\rangle[34][45]\langle 2|1+6|2]^2\langle 2|1+6|3]\langle 2|1+6|5]}+
                                                                                                                                                                       \frac{-1i[12][13]^2\langle 16\rangle^2\langle 2|1+6|4|^4}{\langle 12\rangle[34][45]\langle 2|1+6|2]\langle 2|1+6|3|^3\langle 2|1+6|5|s_{345}}
                                                                                                                                                                  \frac{\langle 16 \rangle [12][13] \langle 2|1+6|4]^3 \langle 7/2i[14] \langle 16 \rangle + 2i[24] \langle 26 \rangle)}{\langle 12 \rangle [34][45] \langle 2|1+6|2] \langle 2|1+6|3]^2 \langle 2|1+6|5] s_{345}} + \\
                                                                                     \frac{[12]\langle 2|1+6|4|^2(-13/3i[14]^2(16)^2-17/3i[14]\langle 16\rangle[24]\langle 26\rangle-11/6i[24]^2\langle 26\rangle^2)}{\langle 12\rangle[34][45]\langle 2[1+6|2]\langle 2[1+6|3]\langle 2[1+6|5]s_{3}45}+
                                                   \frac{\langle 16 \rangle [16] \langle 3|1+6|2] \langle 5|1+6|4] \langle 6|2+3|1] s_{245} \langle 5/64i \langle 12 \rangle [12] \dots \langle 7 \rangle }{\langle 1|2+3|6| \langle 2|1+6|3| \langle 4|1+6|5| \Delta_{624}^2 \rangle}
                                                                                                                                                                                                                                                                                                                                                                                     (7 \text{ terms}) \dots + 5/32i(35)[35])
                                                 \underline{\langle 16 \rangle [16] \langle 3 | 1+6 | 2] \langle 5 | 1+6 | 4] \langle 6 | 2+3 | 1] s_{\textstyle 345} (5/64 i \langle 12 \rangle [12]}
                                                                                                                                                                                                                                                                                                                                                                                       (4 \text{ terms}) \dots -5/128i(25)[25]
                                                                                                                                                                                                           \frac{3|2+3|1|3345(6)-2-1}{(1|2+3|6](2|1+6|3](4|1+6|5]\Delta_{624}^{2}}
                                                                                          \frac{\langle 16 \rangle [16] \langle 3|1+6|2| \langle 5|1+6|4| \langle 6|2+3|1] \langle 45 \rangle [45] \langle 5/32i \langle 12 \rangle [12] +5/32i \langle 13 \rangle [13] \rangle}{\langle 1|2+3|6| \langle 2|1+6|3| \langle 4|1+6|5| \Delta_{624}^2 \rangle} +
                      \frac{[16]\langle 26\rangle\langle 2|1+6|4|^2(5/2i[13][14](16)^2-3/2i[12]\langle 16\rangle\langle 26\rangle[34]+9/2i[13]\langle 16\rangle[24]\langle 26\rangle+2i[23][24]\langle 26\rangle^2)}{\langle 12\rangle[45]\langle 2|1+6|3]^3\langle 2|1+6|5|s_{345}}+
                                                                                                                                                                                                            \frac{4i[12]\langle 26\rangle\langle 2|1+6|4|^2\langle 6|1+2|4|}{\langle 12\rangle[45]\langle 2|1+6|3|^2\langle 2|1+6|5|s_{345}}
                                                        \frac{[15]^2\langle 16\rangle\langle 3|1+6|5]\Pi_{\mathbf{462}}(-3/8i[12]\langle 23\rangle[25]\langle 45\rangle\dots\langle 3\,\mathrm{terms}\rangle\dots-1/4i[15][23]\langle 34\rangle\langle 35\rangle)}{[56]\langle 2|1+6|5]\langle 4|1+6|5]^3\Delta_{\mathbf{624}}}+
                                                                                                                                                       \frac{\langle 34 \rangle [15]^2 \langle 16 \rangle \langle 3|1+6|5] (-3/2i[14] \langle 34 \rangle -1/2i[15] \langle 35 \rangle)}{\langle 23 \rangle [56] \langle 2|1+6|5] \langle 4|1+6|5]^3} + \\
                \frac{[15]^2\langle 16\rangle\langle 3|1+6|5|\Pi_{462}\langle -3/16i\langle 12\rangle[12]^2\langle 23\rangle[23]\langle 35\rangle\ldots\langle 15\text{ terms}\rangle \ldots +3/16i[13][23]\langle 34\rangle\langle 35\rangle^2[45])}{[56](2|1+6|5]\langle 4|1+6|5]^2\Delta_{624}^2} + \frac{[15]^2\langle 16\rangle\langle 3|1+6|5|\Pi_{462}\langle -3/16i\langle 12\rangle[12]^2\langle 23\rangle[23]\langle 35\rangle\ldots\langle 15\text{ terms}\rangle \ldots +3/16i[13][23]\langle 34\rangle\langle 35\rangle^2[45])}{[56](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[4](2|1+6|5)[
                                                \frac{[15]\langle 16\rangle (-9/4i[12]^2\langle 13\rangle [15]\langle 23\rangle \langle 24\rangle [24]\dots \langle 27\,\mathrm{terms}\rangle \dots +3/8i[13][15][25]\langle 34\rangle \langle 35\rangle^2 [45]\rangle}{[56]\langle 2|1+6|5]\langle 4|1+6|5]^2\Delta_{624}} +
                                                                                                \frac{[15]\langle 16\rangle\Pi_{462}(3/2i[12]^2\langle 23\rangle^2[25]\ldots\langle\!\langle 5\,\mathrm{terms}\rangle\!\rangle\ldots+1/8i[15]^2[25]\langle 35\rangle^2)}{[56]\langle 2|1+6|5]\langle 4|1+6|5|^2\Delta_{624}}+
                                                                                                                                                                                                                       \frac{4i[15]\langle 36\rangle\langle 3|2+4|1]\langle 3|1+6|5]}{\langle 23\rangle[56]\langle 2|1+6|5]\langle 4|1+6|5]^2} +
                                                                \frac{\Omega_{462}(5/16i\langle13\rangle^2[13][14]^2[15]\langle34\rangle\langle36\rangle\ldots\langle\!(82\,\mathrm{terms})\!\!)\ldots-}{\langle23\rangle[56]\langle2[1+6|5]\langle4|1+6|5]\Delta_{624}^2}
                                                                                                                                                                                                                                                                                                                                                                                            -1/16i[16]^2\langle 36\rangle^4[36][45])
                                                      \frac{\Omega_{462}(-85/128i(12)^3[12]^5\langle 36\rangle\dots (124\,\mathrm{terms})\dots + 35/64i[14][16]\langle 24\rangle[24]^3\langle 34\rangle\langle 46\rangle^2)}{[23]\langle 45\rangle[56]\langle 2|1+6|5|\langle 4|1+6|5|\Delta_{624}^2
                                              \frac{[15]^2\langle 16\rangle(27/64i\langle 12\rangle^2[12]^3\langle 23)[24](35\rangle\dots\langle 78\,\mathrm{terms}\rangle,\dots+13/64i[13][23]\langle 34\rangle\langle 35\rangle^3[45]^2)}{[56]\langle 2|1+6|5]\langle 4|1+6|5]\Delta_{624}^2}+
                                                              \frac{-83/48i\langle13\rangle^2[13][14]^2[15]\langle34\rangle\langle36\rangle\ldots\langle\!(79\,\mathrm{terms})\!)\ldots+29/24i[16]^2\langle36\rangle^3[45]\langle56\rangle[56]}{\langle23\rangle[56]\langle2|1+6|5]\langle4|1+6|5]\Delta_{624}} +
                                                                                        \frac{-17/8i\langle12\rangle^3[12]^5(36)\ldots\langle(176\,\mathrm{terms})\ldots+1/24i\langle13|^2[23]|26|\langle34\rangle\langle36\rangle^3[46]}{[23]\langle45\rangle[56]\langle2|1+6|5|\langle4|1+6|5|\Delta_{624}}+
                                                                                                                                                                                                                               \frac{\ldots \langle 282\,\mathrm{terms}\rangle \ldots + 3/4i[12]\langle 13\rangle[13][23]\langle 25\rangle^2[25]\langle 35\rangle\langle 36\rangle[45])}{[23]\langle 45\rangle[56]\langle 2|1+6|5|\Delta_{624}^2
                         [12] \underline{(-25/4i\langle 12\rangle^3} [12]^4 \langle 13\rangle [14] \langle 56\rangle \, .
                                                                                                                                                                                                                                                (123456 \rightarrow \overline{654321})+
                                                                                                                                                                                       \frac{-1/4 i \langle 13 \rangle^2 \langle 15 \rangle [26] [46]^2 \langle 6|2+3|1] \Pi_{\mbox{\footnotesize 6}24}}{\langle 12 \rangle [56] \langle 1|2+3|6]^3 \Delta_{\mbox{\footnotesize 6}24}} +
                                                                                                                                                                                                                              \frac{-1i\langle 13\rangle^3[46]^3\langle 6|2+3|1]}{\langle 12\rangle\langle 23\rangle[45][56]\langle 1|2+3|6]^3} +
                                                                                                                                                                                  \frac{-3/16i\langle13\rangle^2\langle15\rangle[26][46]^2\langle6|2+3|1]^2\Pi_{\mbox{\footnotesize{624}}}}{\langle12\rangle[56]\langle1|2+3|6]^2\Delta_{\mbox{\footnotesize{624}}}^2} +
\frac{\langle 13 \rangle [46] \langle 6|2+3|1] \langle -3/8i[12] \langle 13 \rangle \langle 15 \rangle [46]+3/8i\langle 13 \rangle [14] \langle 15 \rangle [26]+3/8i\langle 13 \rangle [23] \langle 35 \rangle [46]+3/8i\langle 15 \rangle [26] \langle 35 \rangle [45])}{\langle 12 \rangle [56] \langle 1|2+3|6]^2 \Delta_{\mathbf{6}24}} + \frac{\langle 13 \rangle [24] \langle 13 \rangle [24]+3/8i\langle 13 \rangle [2
                                                                                \frac{\Pi_{624}(-1/8i\langle12\rangle\langle13\rangle[16][24]^2\langle35\rangle\ldots\langle\!\langle13\,\mathrm{terms}\rangle\!\rangle\ldots+1/8i\langle15\rangle[26]\langle35\rangle^2[45]^2)}{\langle12\rangle[56]\langle1|2+3|6]^2\Delta_{624}} + \\
                                                                   \frac{\langle 13 \rangle [46] (-5/2i(13)^2 [14]^2 - 3i\langle 13 \rangle [14]\langle 23 \rangle [24] - 2i\langle 13 \rangle [14]\langle 35 \rangle [45] + 1/2i\langle 35 \rangle^2 [45]^2)}{\langle 12 \rangle \langle 23 \rangle [45] [56]\langle 1[2+3|6]^2} + \frac{1}{2} \frac{1}{
                   \frac{\langle 16\rangle[16]\langle 3|1+6|2]\langle 5|1+6|4]\langle 6|2+3|1]\Pi_{624}\Pi_{246}\Pi_{462}(-5/256is_{245}-5/256is_{345}-5/128i(45)[45])}{\langle 1|2+3|6]\langle 2|1+6|3]\langle 4|1+6|5]\Delta_{624}^3}+
                                                                                                                                                                                         \frac{1/48 i \langle 13 \rangle [46] \langle 6|2+3|1] \langle 3|1+5|4|^2 \Omega_{624}}{\langle 12 \rangle \langle 23 \rangle [45] [56] \langle 1|2+3|6] \Delta_{624}^2} + \\
                                              \frac{\langle 6|2+3|1|\Omega_{\mathbf{624}}(-31/48i[12]^2\langle 13\rangle\langle 15\rangle^2[46]\ldots\langle 16\,\mathrm{terms}\rangle\ldots+1/24i\langle 15\rangle[24][26]\langle 35\rangle^2[35]\rangle}{\langle 12\rangle[23]\langle 45\rangle\langle 56]\langle 1|2+3|6]\Delta_{\mathbf{624}}^2} +
                                                          \frac{\langle 13 \rangle [46] \langle 6|2+3|1|^2 (-27/64i[12] \langle 13 \rangle \langle 15 \rangle [46] \dots \langle 4 \text{ terms} \rangle \dots -13/64i \langle 15 \rangle [26] \langle 35 \rangle [45] \rangle}{\langle 12 \rangle [56] \langle 1|2+3|6] \Delta_{\tilde{\mathbf{6}}24}^2} +
                                                                                                       \frac{7/8i\langle12\rangle[12]\langle13\rangle^2[14]^2\langle23\rangle[24]\dots\langle\!\langle60\,\mathrm{terms}\rangle\!\rangle\dots+3}{\langle12\rangle\langle23\rangle[45][56]\langle1|2+3|6]\Delta_{624}}
                                                                                                                                                                                                                                                                                                                                                                                       +1/8i\langle35\rangle^3\langle45\rangle[45]^4
                                                                      \frac{-1/12i\langle 12\rangle^2[12]^2[23][24]\langle 35\rangle^2\ldots\langle 35\, {\rm terms}\rangle\ldots+1/12i\langle 13\rangle[13][23][25][34]\langle 35\rangle^3}{\langle 12\rangle[23](45)[56]\langle 1[2+3|6]\Delta_{624}}+
                                   \frac{-19/16i\langle12\rangle^3[12]\langle13\rangle[14]^4[25]\langle34\rangle\langle36\rangle\dots\langle110\,\mathrm{terms}\rangle\dots+5/32i[14]\langle26\rangle\langle36\rangle^5[36]^2[46]^2[56]}{\langle12\rangle\langle23\rangle[45][56]\langle2|1+6|5|\Delta_{\tilde{\mathbf{6}}24}^2}+
                                                 \frac{59/8i[12]\langle 13\rangle^4[13]^3[14]\langle 56\rangle^2\ldots\langle\! 849\,\mathrm{terms}\rangle\!\ldots +251/24i[16][26][35]\langle 36\rangle^2[46]\langle 56\rangle^4[56]}{\langle 12\rangle[23]\langle 45\rangle\langle 2|1+6|5]\Delta_{624}^2} +
                                                                                                                                                                                                                            \frac{36}{\langle 12 \rangle} ... \langle 131 \, \mathrm{terms} \rangle ... -3/16 \langle 12 \rangle [45] [56] \langle 2|1+6|5| \Delta^2_{624}
                                                                   \frac{7/32i\langle 13\rangle^{4}[13]^{2}[14]^{3}[35]\langle 36\rangle}{2}
                                                                                                                                                                                                                                                                                                                                                        -3/16i[15][34](36)^{4}[36](46)[46]^{3}
                                                              \frac{683/384i\langle13\rangle^3[13]^2\langle14\rangle[14]^3\langle36\rangle\dots\langle\langle112\text{terms}\rangle\dots}{\langle12\rangle[56]\langle2|1+6|5|\Delta_{624}^2}
                                                                                                                                                                                                                                                                                                                                                          ...+37/64i[16][34]\langle 36 \rangle^{5}[36]^{2}[46]_{+}
                                     \frac{1313/192i\langle12\rangle^3[12]^5\langle13\rangle[14]\langle56\rangle\dots\langle\!(830\,\mathrm{terms})\!)\dots+115/96i[13][15][25]^2[34]\langle35\rangle^4[35]\langle56\rangle}{[23]\langle45\rangle[56](2]1+6|5]\Delta_{624}^2}+
                              \frac{-19583/384i\langle12\rangle^2[12]^4\langle13\rangle[14]\langle56\rangle^2\ldots(425\,\mathrm{terms})\ldots-2561/6i[15][16][24][26]\langle36\rangle\langle56\rangle^4[56]}{[23]\langle45\rangle\langle2|1+6|5]\Delta_{G24}^2}
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