```
-1/3i[12][24]^2\langle \underline{26}\rangle^2\langle 2|1+6|4]^2s_{345}
                                                                                                                                                       \frac{1}{\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(2/3i[14]\langle 16\rangle+7/6i[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 (-1/2i[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(-1/3i[14]^2\langle 16\rangle^2-5/3i[14]\langle 16\rangle[24]\langle 26\rangle-11/}{\langle 12\rangle[34][45]\langle 2|1+6|2]\langle 2|1+6|3]\langle 2|1+6|5]s_{345}}
                                                                                                                                                                                                                                                                                                                                           -11/6i[24]^2(26)^2
                                         \underline{\langle 16 \rangle [16] \langle 3|1+6|2] \langle 5|1+6|4] \langle 6|2+3|1] s_{\textbf{245}} (5/64i \langle 12 \rangle [12] \dots \langle 7 \, \text{terms} \rangle \dots + 5/32i \langle 35 \rangle [35])} \ ...
                                                                                                                                                                      \frac{243}{\langle 1|2+3|6]\langle 2|1+6|3]\langle 4|1+6|5]\Delta^2_{624}}
                                      \underline{\langle 16 \rangle [16] \langle 3|1+6|2] \langle 5|1+6|4] \langle 6|2+3|1] s_{\ensuremath{\mathbf{345}}} (5/64i\langle 12 \rangle [12] \dots \underline{\langle \langle 4\,\mathrm{terms}\rangle\rangle} \dots -5/128i\langle 25 \rangle [25])}_{\perp}
                                                                                                                                                                       \langle 1|2+3|6]\langle 2|1+6|3]\langle 4|1+6|5]\Delta^2_{624}
                                                                         \frac{\langle 16 \rangle [16] \langle 45 \rangle [45] \langle 3|1+6|2] \langle 5|1+6|4| \langle 6|2+3|1] \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
                 \frac{[16]\langle 26\rangle\langle 2|1+6|4|^2(5/2i[13][14]\langle 16\rangle^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{[15]^2\langle 16\rangle\langle 3|1+6|5]\Pi_{\mathbf{462}}(-3/8i[12]\langle 23)[25](45)\ldots\langle 3\,\mathrm{terms}\rangle\ldots-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} +
                                                                                                                                                                                \begin{array}{l} 2\rangle[12]^2\langle23\rangle[23]\langle35\rangle\ldots\langle\!(15\,\mathrm{terms})\!\!)\ldots + 3/16i[13][23]\langle34\rangle\langle35\rangle^2[45])}{[56]\langle2|1+6|5]\langle4|1+6|5|^2\Delta_{624}^2 \end{array} +
            [15]^2 \langle 16 \rangle \langle 3|1+6|5] \Pi_{462} (-3/16 i \langle 12 \rangle [12]^2 \langle 23 \rangle [23] \langle 35 \rangle
                                                 \frac{[15]^2\langle 16\rangle (-17/8i[12]^2\langle 13\rangle \langle 23\rangle \langle 24\rangle [24]\ldots \langle (23\,\mathrm{terms})\rangle \ldots +3/8i[13][25]\langle 34\rangle \langle 35\rangle^2 [45]\rangle }{[56]\langle 2|1+6|5|\langle 4|1+6|5|^2\Delta_{624}} +
                                                        [15]\Pi_{462}(7/2i\langle12\rangle[12]^2\langle13\rangle[15]\langle36\rangle\dots\langle\langle17\,\mathrm{terms}\rangle\rangle\dots+1/2i[15]\langle16\rangle[16][26]\langle36\rangle^2)
                                                                                                                                                                                [56]\langle 2|1+6|5]\langle 4|1+6|5]^2\Delta_{624}
                                \Omega_{462}(101/192i\langle13\rangle^2[14]^3[15]\langle34\rangle\langle46\rangle\dots\langle\!\langle 8\,\mathrm{terms}\rangle\!\rangle\dots + 101/192i[15]^2\langle34\rangle\langle35\rangle^2[45]^2\langle56\rangle) - \Omega_{462}(101/192i\langle13\rangle^2[14]^3[15]\langle34\rangle\langle46\rangle\dots\langle\!\langle 8\,\mathrm{terms}\rangle\!\rangle\dots + 101/192i[15]^2\langle34\rangle\langle35\rangle^2[45]^2\langle56\rangle) - \Omega_{462}(101/192i\langle13\rangle^2[14]^3[15]\langle34\rangle\langle46\rangle\dots\langle\!\langle 8\,\mathrm{terms}\rangle\!\rangle\dots + 101/192i[15]^2\langle34\rangle\langle35\rangle^2[45]^2\langle56\rangle) - \Omega_{462}(101/192i\langle13\rangle^2[14]^3[15]^2\langle34\rangle\langle46\rangle\dots\langle\!\langle 8\,\mathrm{terms}\rangle\!\rangle\dots + 101/192i[15]^2\langle34\rangle\langle35\rangle^2[45]^2\langle56\rangle) - \Omega_{462}(101/192i\langle13\rangle^2[14]^3[15]^2\langle34\rangle\langle46\rangle\dots\langle\!\langle 8\,\mathrm{terms}\rangle\!\rangle\dots + 101/192i[15]^2\langle34\rangle\langle35\rangle^2[45]^2\langle56\rangle) - \Omega_{462}(101/192i\langle13\rangle^2[15]^2\langle34\rangle\langle35\rangle^2[45]^2\langle56\rangle) - \Omega_{462}(101/192i\langle13\rangle^2[15]^2\langle34\rangle\langle36\rangle) - \Omega_{462}(101/192i\langle15\rangle^2[15]^2\langle34\rangle\langle36\rangle) - \Omega_{462}(101/192i\langle15\rangle^2[15]^2\langle36\rangle) - \Omega_{462}(101/192i\langle15\rangle^2[15]^2\langle36\rangle) - \Omega_{462}(101/192i\langle15\rangle^2[15]^2\langle36\rangle) - \Omega_{462}(101/192i\langle15\rangle^2[15]^2\langle36\rangle) - \Omega_{462}(101/192i\langle15\rangle^2[15]^2\langle36\rangle) - \Omega_{462}(101/192i\langle15\rangle^2[15]^2[15]^2\langle36\rangle) - \Omega_{462}(101/192i\langle15\rangle^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2[15]^2
                                                                                                                                                                          \langle 23 \rangle [56] \langle 2|1+6|5] \langle 4|1+6|5] \Delta^2_{624}
                                                 \underline{\Omega_{462}(-101/32i\langle12\rangle^3[12]^5\langle36\rangle\ldots\langle\!(239\,\mathrm{terms})\!)\ldots+1/16i[13]^2[23][26]\langle34\rangle\langle36\rangle^3[46])}_\perp
                                                                                                                                                                  \scriptstyle{[23]\langle 45\rangle[56]\langle 2|1+6|5]\langle 4|1+6|5]\Delta^2_{624}}
                                     \frac{[15]^2\langle 16\rangle(27/64i\langle 12\rangle^2[12]^3\langle 23)[24]\langle 35\rangle\dots\langle 78\,\mathrm{terms}\rangle\rangle\dots+13/64i[13][23]\langle 34\rangle\langle 35\rangle^3[45]^2\rangle}{[56]\langle 2|1+6|5]\langle 4|1+6|5|\Delta_{\mathbf{6}24}^2
                                                                           \frac{1/8i\langle13\rangle^2[14]^3[15]\langle34\rangle\langle46\rangle\ldots\langle\!(15\,\mathrm{terms})\!\!)\ldots+1/8i[16]^2\langle36\rangle^3[45]\langle46\rangle[46]}{\langle23\rangle[56]\langle2|1+6|5]\langle4|1+6|5]\Delta_{624}} +
                                                                        \frac{-123/8 i\langle 12\rangle^3 [12]^5 \langle 36\rangle \dots \langle 334 \, \mathrm{terms} \rangle \dots -1/4 i[13] [16] [26]^2 [34] \langle 36\rangle^3 \langle 46\rangle}{[23] \langle 45\rangle [56] \langle 2|1+6|5] \langle 4|1+6|5| \Delta_{624}} +
                                                                                                                                                                                                                                                                                                       +1/8i[13]^3\langle 15\rangle[25]^2\langle 35\rangle^3\langle 36\rangle[45]_{\perp}
                                            -5435/192i\langle 12\rangle^{3}[12]^{5}\langle 13\rangle[14]\langle 56\rangle.
                                                                                                                                                                                                                        . ((339 terms)).
                                                                                                                                                                                      [23]\langle 45 \rangle [56]\langle 2|1+6|5]\Delta_{624}^2
                                                                                                                                                                                                     (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 624}}}{\langle 12 \rangle [56] \langle 1|2+3|6]^3 \Delta_{\mbox{\footnotesize 624}}} +
                                                                                                                                                                                        \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{-3/16 i\langle 13\rangle^2 \langle 15\rangle [26] [46]^2 \langle 6|2+3|1]^2 \Pi_{\mbox{\footnotesize 624}}}{\langle 12\rangle [56] \langle 1|2+3|6]^2 \Delta_{\mbox{\footnotesize 624}}^2} +
\frac{\langle 13\rangle [46]\langle 6|2+3|1|(-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_{624}}+
                                                                   \underline{\Pi_{624}(-1/8i\langle12\rangle\langle13\rangle[16][24]^2\langle3}5\rangle
                                                                                                                                                                                            \begin{array}{l} 24]^2\langle 35\rangle \ldots \langle \!\langle 13\, \mathrm{terms}\rangle\!\rangle \ldots + 1/8i\langle 15\rangle[26]\langle 35\rangle^2[45]^2) \\ \langle 12\rangle[56]\langle 1|2+3|6]^2\Delta_{624} \end{array} +
                                                           \frac{\langle 13\rangle [46](3/2i\langle 13\rangle^2 [14]^2 + 1i\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{\langle 13\rangle [46](3/2i\langle 13\rangle^2 [14]^2 + 1/2i\langle 35\rangle^2 [45]^2)}{\langle 12\rangle \langle 23\rangle [45][56]\langle 12 + 3[6]^2 \rangle} + \frac{\langle 13\rangle [46](3/2i\langle 13\rangle^2 [14]^2 + 1/2i\langle 35\rangle^2 [45]^2)}{\langle 12\rangle \langle 23\rangle [45][66]\langle 12 + 3[6]^2 \rangle} + \frac{\langle 13\rangle [46](3/2i\langle 13\rangle^2 [14]^2 + 1/2i\langle 35\rangle^2 [45]^2)}{\langle 12\rangle \langle 23\rangle [45][66]\langle 12 + 3[6]^2 \rangle} + \frac{\langle 13\rangle [46](3/2i\langle 13\rangle^2 [14]^2 + 1/2i\langle 13\rangle^2 [14]^2)}{\langle 12\rangle \langle 23\rangle [45][66]\langle 12 + 3[6]^2 \rangle} + \frac{\langle 13\rangle [46](3/2i\langle 13\rangle^2 [14]^2 + 1/2i\langle 13\rangle^2 [14]^2)}{\langle 12\rangle \langle 13\rangle [46](3/2i\langle 13\rangle^2 [14]^2 + 1/2i\langle 13\rangle^2 + 1/2i
              \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}+
                                                                                                                                                          1/48 \underline{i\langle 13\rangle [46]\langle 6|2+3|1]\langle 3|1+5|4]^2} \Omega_{f 624} +
                                                                                                                                                                             \langle 12\rangle\langle 23\rangle[45][56]\langle 1|2+3|6]\Delta^2_{624}
                                    \frac{\langle 6|2+3|1|\Omega_{624}(-31/48i[12]^2\langle 13\rangle\langle 15\rangle^2[46]\ldots\langle\!\langle 16\,\mathrm{terms}\rangle\!\rangle\ldots+1/24i\langle 15\rangle[24][26]\langle 35\rangle^2[35])}{\langle 12\rangle[23]\langle 45\rangle[56]\langle 1|2+3|6]\Delta_{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_{\widetilde{\mathbf{6}} \, 24}^2} +
                                                                                \frac{-5/8i\langle12\rangle[12]\langle13\rangle^2[14]^2\langle23)[24]\ldots\langle\!(60\,\mathrm{terms})\!)\ldots+1/8i\langle35\rangle^3\langle45\rangle[45]^4}{\langle12\rangle\langle23\rangle[45][56]\langle1[2+3|6]\Delta_{624}}+
                                                         \frac{-1/12i\langle12\rangle^2[12]^2[23][24]\langle35\rangle^2\ldots\langle35\,\mathrm{terms}\rangle\ldots+1/12i\langle13\rangle[13][23][25][34]\langle35\rangle^3}{\langle12\rangle\langle23](45)[56](1]2+3[6]\Delta_{624}}+
                                                                                                                                                                             \begin{array}{l} \langle 34 \rangle \langle 36 \rangle \ldots \langle \! \langle 137\, \mathrm{terms} \rangle \! \rangle \ldots - 3/32i[14] \langle 26 \rangle \langle 36 \rangle^5 [36]^2 [46]^2 [56] \\ \langle 12 \rangle \langle 23 \rangle [45] [56] \langle 2|1+6|5] \Delta_{624}^2 \end{array} +
                                 43/48i\langle 12\rangle^3[12]\langle 13\rangle[14]^4[25]\langle 34\rangle\langle 36\rangle
                     \frac{2821/192i[12]\langle 13\rangle^4[13]^3[14]\langle 56\rangle^2\ldots\langle\!\langle 849\,\mathrm{terms}\rangle\!\rangle\ldots-2333/\zeta^2}{\langle 12\rangle[23]\langle 45\rangle\langle 2|1+6|5|\Delta_{624}^2}
                                                                                                                                                                                                                                                                                -2333/192i[16][26][35](36)^{2}[46](56)^{4}[56]_{+}
                                                       -5/32i\langle 13 \rangle^4 [13]^2 [14]^3 [35]\langle 36 \rangle \dots \langle (129 \, \text{terms}) \rangle \dots
                                                                                                                                                                                                                                                                                               +25/24i[15][34](36)^{5}[36]^{2}[46]^{2}
                                                                                                                                                                                        \langle 12 \rangle [45][56] \langle 2|1+6|5] \Delta_{624}^2
                                               \frac{101/192i[12]\langle 13\rangle^3[13]\langle 14\rangle[14]^3\langle 26\rangle\dots\langle 120\,\mathrm{terms}\rangle\dots-25/24i[16][34]\langle 36\rangle^5[36]^2[46]}{\langle 12\rangle[56]\langle 2|1+6|5|\Delta_{624}^2}+
                                                \frac{98/3i\langle12\rangle^3[12]^5\langle13\rangle[14]\langle56\rangle\dots\langle(843\,\mathrm{terms})\dots-1/12i[13][15][25]^2[34]\langle35\rangle^4[35]\langle56\rangle}{[23](45)[56](2]1+6[5]\Delta_{624}^2}+
              \frac{117815/192i\langle12\rangle^2[12]^4\langle13\rangle[14]\langle56\rangle^2\ldots\langle425\,\mathrm{terms}\rangle\ldots+198987/64i[15][16][24][26]\langle36\rangle\langle56\rangle^4[56]}{[23]\langle45\rangle\langle2|1+6|5]\Delta_{624}^2}
```