

$$\begin{aligned}
& -\frac{24[13](26)(36)\langle 4|1+2|3\rangle\Delta_{13|24|56}}{\langle 56\rangle\langle 2|1+4|3\rangle^3\langle 3|5+6|3\rangle} + \\
& \frac{24[13](16)(24)(26)\Delta_{13|24|56}}{\langle 12\rangle\langle 56\rangle\langle 2|1+4|3\rangle^3} + \\
& \frac{\langle 24\rangle\Delta_{13|24|56}[12](-6\langle 24\rangle[24](26)[35]\dots\langle 4\text{ terms}\rangle\dots-2[12][14][35](46))}{\langle 12\rangle[13](2|5+6|2)^2\langle 2|1+4|3\rangle^2} + \\
& \frac{12[12](14)(24)(26)[34](6|2+5|1)\Delta_{13|24|56}}{\langle 12\rangle[13](56)\langle 2|5+6|2\rangle^2\langle 2|1+4|3\rangle^2} + \\
& \frac{\langle 26\rangle(13/2(24)[24](34)^2[34]^3(46)\dots\langle 31\text{ terms}\rangle\dots-2[12](13)\langle 14\rangle[14](24)[34]^2(46))}{\langle 12\rangle[34](56)\langle 2|5+6|2\rangle\langle 2|1+4|3\rangle^2} + \\
& \frac{[35](24)(9/2(13)[13](23)[24](34)[34][35]\dots\langle 20\text{ terms}\rangle\dots-9(13)[13](23)^2[23]^2[45])}{\langle 12\rangle[34][56]\langle 2|5+6|2\rangle\langle 2|1+4|3\rangle^2} + \\
& \frac{\langle 26\rangle(49/2(34)^2[34]^3(46)\dots\langle 32\text{ terms}\rangle\dots+43/2\langle 12\rangle[12](23)[23][34](46))}{\langle 12\rangle[34](56)\langle 2|1+4|3\rangle^2} + \\
& \frac{12[12]^3(14)(26)^2\Delta_{13|24|56}}{[13](56)\langle 2|5+6|2\rangle^3\langle 2|1+4|3\rangle} + \\
& \frac{\Delta_{13|24|56}\langle 24\rangle[12](8[25](26)-2[35](36)-2[45](46))}{\langle 12\rangle[13](2|5+6|2)^2\langle 2|1+4|3\rangle} + \\
& \frac{10[12](24)[24](26)(46)\Delta_{13|24|56}}{\langle 12\rangle[13](56)\langle 2|5+6|2\rangle^2\langle 2|1+4|3\rangle} + \\
& \frac{\langle 24\rangle[24](26)(-4[14](24)^3[24]^3[35]+12(13)[13]^2(24)^2[24]^2[45]-12(13)^2[13]^3(24)[24][45]+4(13)^3[13]^4[45])}{\langle 12\rangle[13][34](56)[56]\langle 2|5+6|2\rangle\langle 2|1+4|3\rangle\langle 2|1+3|4\rangle} + \\
& \frac{-27/4[13](23)[23](24)^3[24]^2(36)[45]\dots\langle 37\text{ terms}\rangle\dots-5/2[12](24)^4[24]^3(26)[45]}{\langle 12\rangle[13](56)[56]\langle 2|5+6|2\rangle\langle 2|1+4|3\rangle\langle 2|1+3|4\rangle} + \\
& \frac{-3(13)^2[13]^3(23)[24][35](46)\dots\langle 112\text{ terms}\rangle\dots+3/2(13)[13]^2(34)^2[34]^2[35](36)}{\langle 12\rangle[13][34](56)[56]\langle 2|5+6|2\rangle\langle 2|1+4|3\rangle} + \\
& \frac{481/12(14)^2[14]^2(24)^2[24][34][35](46)\dots\langle 233\text{ terms}\rangle\dots-7/3[13](14)(24)^2[24](34)[34]^2[35](36)}{\langle 12\rangle[13](24)[34](56)[56]\langle 1|2+4|3\rangle\langle 2|1+4|3\rangle} + \\
& -\frac{12[12]^2[24](26)^2(34)\Delta_{13|24|56}}{[13](56)\langle 2|5+6|2\rangle^3\langle 2|1+3|4\rangle} + \\
& \frac{4[12](23)[25](26)\Delta_{13|24|56}}{\langle 12\rangle[13](2|5+6|2)^2\langle 2|1+3|4\rangle} + \\
& \frac{10[12](23)[24](26)(46)\Delta_{13|24|56}}{\langle 12\rangle[13](56)\langle 2|5+6|2\rangle^2\langle 2|1+3|4\rangle} + \\
& \frac{[12]\Delta_{13|24|56}(-12[12](13)(23)\langle 26\rangle[35]+12(24)^2[24](36)[45]+12(12)[12](24)(36)[45]+12(23)^2[23][45](46))}{\langle 12\rangle[13](56)[56]\langle 2|5+6|2\rangle^2\langle 2|1+3|4\rangle} + \\
& \frac{(23)[25]\Delta_{13|24|56}[12](-6(24)[45]+12(23)[35])}{\langle 12\rangle[13](56)\langle 2|5+6|2\rangle^2\langle 2|1+3|4\rangle} + \\
& \frac{3(14)^3[14]^4[35](36)\dots\langle 60\text{ terms}\rangle\dots+5[12](13)[14](24)(34)[34]^2[35](36)}{\langle 12\rangle[13][34](56)[56]\langle 2|5+6|2\rangle\langle 2|1+3|4\rangle} + \\
& \frac{65/2[12]^2(13)(23)[34][35](46)\dots\langle 86\text{ terms}\rangle\dots-17/2[14](24)[24]^2(34)[35](46)}{\langle 12\rangle[13][34](56)[56]\langle 2|5+6|2\rangle} + \\
& -\frac{2(16)^2(23)[23]^2\Delta_{13|24|56}}{\langle 12\rangle[34](56)\langle 1|2+4|3\rangle^2\langle 3|5+6|3\rangle} + \\
& \frac{-1/3[12](13)(16)^2[23](24)s_{234}}{\langle 12\rangle\langle 56\rangle\langle 1|2+4|3\rangle^2\langle 3|5+6|3\rangle} + \\
& \frac{-1/3[12](13)(16)^2[23](24)(s_{124}-s_{234})}{\langle 12\rangle\langle 56\rangle\langle 1|2+4|3\rangle^2\langle 3|5+6|3\rangle} + \\
& \frac{-4(16)^2[23](34)\Delta_{13|24|56}}{\langle 12\rangle\langle 56\rangle\langle 1|2+4|3\rangle^2\langle 3|5+6|3\rangle} + \\
& \frac{1/3(16)^2[23](34)s_{234}}{\langle 12\rangle\langle 56\rangle\langle 1|2+4|3\rangle^2} + \\
& \frac{1/3[12](13)(16)^2[23](24)}{\langle 12\rangle\langle 56\rangle\langle 1|2+4|3\rangle^2} + \\
& \frac{1/3(16)^2[23](34)(s_{124}-s_{234})}{\langle 12\rangle\langle 56\rangle\langle 1|2+4|3\rangle^2} + \\
& \frac{1/12[34](3|2+4|1)\langle 4|1+3|2\rangle\langle 6|1+3|5\rangle(s_{12}+s_{14}+s_{32}+s_{34})}{[13]\langle 1|2+4|3\rangle\langle 2|1+3|4\rangle\Delta_{13|24|56}} + \\
& \frac{-1/24[23](s_{123}-s_{134})(3|2+4|1)\langle 6|1+3|5\rangle(s_{12}+s_{14}+s_{32}+s_{34})}{[13]\langle 1|2+4|3\rangle\langle 2|1+3|4\rangle\Delta_{13|24|56}} + \\
& \frac{1/24[14](4|1+3|2)\langle 6|1+3|5\rangle(s_{12}+s_{14}+s_{32}+s_{34})(s_{124}-s_{234})}{[13]\langle 1|2+4|3\rangle\langle 2|1+3|4\rangle\Delta_{13|24|56}} + \\
& \frac{\langle 14\rangle[12](1/2(14)^2[15](26)+1/2(14)(24)[25](26)+1(14)(24)[45](46)+1/2(12)(24)[25](46))}{\langle 12\rangle\langle 24\rangle\langle 1|2+4|3\rangle\langle 4|1+2|3\rangle} + \\
& \frac{\langle 12\rangle\langle 14\rangle\langle 46\rangle^2[12](-1/2(13)[13]+1/2(24)[24])}{\langle 12\rangle\langle 24\rangle\langle 56\rangle\langle 1|2+4|3\rangle\langle 4|1+2|3\rangle} + \\
& \frac{\langle 14\rangle\langle 26\rangle\langle 24\rangle\langle 46\rangle[12](-1/2(14)[24]-1/2(13)[23])}{\langle 12\rangle\langle 24\rangle\langle 56\rangle\langle 1|2+4|3\rangle\langle 4|1+2|3\rangle} + \\
& \frac{1/2(14)^3[14][15](46)}{\langle 12\rangle\langle 24\rangle\langle 1|2+4|3\rangle\langle 4|1+2|3\rangle} + \\
& \frac{1/2[12](13)(14)(24)[25][35]}{\langle 12\rangle\langle 56\rangle\langle 1|2+4|3\rangle\langle 4|1+2|3\rangle} + \\
& \frac{1/2(14)(24)[24][25](34)[35]}{\langle 12\rangle\langle 56\rangle\langle 1|2+4|3\rangle\langle 4|1+2|3\rangle} + \\
& \frac{\langle 24\rangle\langle 46\rangle[12](1/2(14)(36)-1(13)(46))}{\langle 12\rangle\langle 24\rangle\langle 56\rangle\langle 4|1+2|3\rangle} + \\
& \frac{\langle 34\rangle\langle 46\rangle(-1/2(14)[15]-1/2(24)[25])}{\langle 12\rangle\langle 24\rangle\langle 4|1+2|3\rangle} + \\
& (123456 \rightarrow \overline{432165}) + \\
& \frac{1/24(3|2+4|1)\langle 4|1+3|2\rangle\langle 2|1+3|5\rangle\langle 6|1+5|3\rangle(s_{12}+s_{14}+s_{32}+s_{34})}{[13](24)\langle 1|2+4|3\rangle\langle 2|1+3|4\rangle\Delta_{13|24|56}} + \\
& \frac{-1/24(16)[45](3|2+4|1)\langle 4|1+3|2\rangle(s_{12}+s_{14}+s_{32}+s_{34})}{\langle 1|2+4|3\rangle\langle 2|1+3|4\rangle\Delta_{13|24|56}}
\end{aligned}$$