

$$\begin{aligned}
& \frac{-11/8(s_{14}-s_{23})(s_{124}-s_{234})(14)(61+35)[24]}{\Delta_{13|24|56}(1|2+4|3)^2(2|1+3|4)} + \\
& \frac{(16)(24)(14)(17/2(46)[34][13][24](13) \dots \langle 4 \text{ terms} \rangle) \dots + 89/2(36)(12)(23)[13][24]}{(12)^2[13][34]^2(56)(1|2+4|3)^2(3|2+4|3)} + \\
& \frac{11/8(23)(s_{123}-s_{134})(s_{14}-s_{23})(61+35)[24]}{\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)^2} + \\
& \frac{(46)[34]^2(-2(12)(23)(46)[34][24] \dots \langle 12 \text{ terms} \rangle) \dots + 11/2(36)(12)(34)13}{(12)^2[13][34]^2(56)(1|2+4|3)(2|1+3|4)} + \\
& \frac{[34](36)(29/2(26)[23][34]^2(13)(24) \dots \langle 12 \text{ terms} \rangle) \dots - 17/2(12)(26)(14)[34][13][24]}{(12)^2[13][34]^2(56)(1|2+4|3)(2|1+3|4)} + \\
& \frac{(26)[34](-12(26)14^2[34][24] \dots \langle 13 \text{ terms} \rangle) \dots + 2(12)(16)(13)[13]^2[24]}{(12)^2[13][34]^2(56)(1|2+4|3)(2|1+3|4)} + \\
& \frac{[45](-27[35](34)[34]^3(13)(24) \dots \langle 10 \text{ terms} \rangle) \dots - 11/2[35](12)^3[12]^2[34]}{(12)^2[13][34]^2(56)(1|2+4|3)(2|1+3|4)} + \\
& \frac{[35]^2(-11/2(23)(24)[34]^2[24](13)+11/2(23)(12)^2[13][24]^2-11/2(34)[34]^3(13)(23)-11/2(14)(12)^3[12][24])}{(12)^2[13][34]^2(56)(1|2+4|3)(2|1+3|4)} + \\
& \frac{11/8[12][14](s_{14}-s_{23})(14)(61+35)}{[13]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{1/4[12](s_{14}-s_{23})(61+35)(s_{24}-s_{56})}{[13]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{11/8[35](36)[12](s_{14}-s_{23})(s_{24}-s_{56})}{[13]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{-9/8[12](16)(1|2+4|1)(s_{24}-s_{56})[15]}{[13]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{9/8(36)(46)(3|1+4|2)[34](s_{13}-s_{24})}{(56)\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{-1/4(36)(46)[14](1|3+4|2)(s_{13}-s_{24})}{(56)\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{(3|1+4|2)[45](s_{13}-s_{24})(-1/4[25](24)-11/8[35](34))}{[56]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{-41/16(36)[14]^2[25](14)^2 \dots \langle 52 \text{ terms} \rangle) \dots + 9/8[12](23)(26)[23][25](13)}{\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{[35](-1(12)(26)14^2[13][24]^2 \dots \langle 3 \text{ terms} \rangle) \dots - 1[12](26)14^2[34]^2(13)}{(12)^2[13][34]^2(56)[56](1|5+6|1)(1|2+4|3)} + \\
& \frac{(12)[23][24](34)(-29(26)[23][25](23)-29[23][45](23)(46)+29(36)[23](24)[45]+29[35](46)(23)[24])}{(12)[34][56][56](1|2+4|3)(3|2+4|3)^2} + \\
& \frac{-11/2(36)[35]14^2[34]^224 \dots \langle 10 \text{ terms} \rangle) \dots - 17/2(36)(12)[35](34)(14)[34]^2[13][24]}{(12)^2[13][34]^2(56)[56](1|2+4|3)(3|2+4|3)} + \\
& \frac{[34](193/2[35][14](26)(14)^2[24] \dots \langle 33 \text{ terms} \rangle) \dots + 11/2[35](12)(46)(24)[24]^2}{(12)^2[13][34]^2(56)[56](1|2+4|3)} + \\
& \frac{1[35](46)[23](14)(3|1+2|4)(24)}{(12)^2[13](56)[56](1|2+4|3)(4|1+2|3)} + \\
& \frac{11/8[12]^2(14)(61+35)}{[13]\Delta_{13|24|56}(1|2+4|3)} + \\
& \frac{3/2[14](13)[45]^2[13]}{[34]^2[56](2|1+3|4)^2} + \\
& \frac{3(3|1+2|5)[14][45]}{[34][56](2|1+3|4)^2} + \\
& \frac{11/2[14][25][45](23)}{[34][56](2|1+3|4)^2} + \\
& \frac{[34](26)(-11/2(36)[12](23)[34]^2(24)-10[12](23)(26)[34](13)[13]-9/2(36)[14]^2[34](14)(24)+9/2[14]^3(12)(14)(46))}{(12)^2[13][34]^2(56)(2|3+4|1)(2|1+3|4)} + \\
& \frac{(24)(23)^2[15](-11/2[23][45]+11/2[35][24])}{(12)^2[13][56](2|3+4|1)(2|1+3|4)} + \\
& \frac{11/8(34)[14][12](61+35)}{[13]\Delta_{13|24|56}(2|1+3|4)} + \\
& \frac{-5/2(36)[12][15](s_{24}-s_{56})}{[13]\Delta_{13|24|56}(2|1+3|4)} + \\
& \frac{-2(13)^3(14)[13][15]^2}{(12)^2[56](1|2+3|1)^2(1|5+6|1)} + \\
& \frac{-3(13)^2(14)[15]^2}{(12)^2[56](1|2+3|1)(1|5+6|1)} + \\
& \frac{-1/2(46)(34)(1|2+4|1)[15][24]^2}{[34](1|5+6|1)^2(3|2+4|3)^2} + \\
& \frac{1/2(36)[15](34)(14)[13][24]^2}{[34](1|5+6|1)^2(3|2+4|3)^2} + \\
& \frac{-1[15](16)(34)[13][24]^2}{[34]^2(1|5+6|1)^2(3|2+4|3)} + \\
& \frac{-1[12](16)(34)[15][24]}{[34](1|5+6|1)^2(3|2+4|3)} + \\
& \frac{[23](34)(-3/2[35](36)(23)^2[23][24] \dots \langle 18 \text{ terms} \rangle) \dots - 3/2(23)(46)[45](24)[24]^2}{(12)[34](56)[56](1|5+6|1)(3|2+4|3)^2} + \\
& \frac{(46)[24](34)(-1/2[14][25]+1/2[12][45])}{[34](1|5+6|1)(3|2+4|3)^2} + \\
& \frac{2[35](26)(13)^3[13]^3[24] \dots \langle 41 \text{ terms} \rangle) \dots - 2(36)[35][14]^2(14)^2[34]24}{(12)^2[13][34]^2(56)[56](1|5+6|1)(3|2+4|3)} + \\
& \frac{60[35](23)(46)[34][13][24](13) \dots \langle 94 \text{ terms} \rangle) \dots + 9/2[35](12)[12](26)(24)[24]^2}{(12)^2[13][34]^2(56)[56](1|5+6|1)} + \\
& \frac{[23](34)(-61/2[35](36)(23)[24] \dots \langle 6 \text{ terms} \rangle) \dots - 3/2(36)[14][45](14)}{(12)[34](56)[56](3|2+4|3)^2} + \\
& \frac{13/2[35](23)(46)[34][13][24](13) \dots \langle 57 \text{ terms} \rangle) \dots + 1/2(12)[12](16)[45](13)[13]^2}{(12)^2[13][34]^2(56)[56](3|2+4|3)} + \\
& \frac{(26)(20(36)[12][34]^2(24) \dots \langle 10 \text{ terms} \rangle) \dots - 9/2(36)[34](13)[13]^2}{(12)^2[13][34]^2(56)(2|3+4|1)} + \\
& \frac{(24)[15](9/2[34][45]-20[25](23))}{(12)^2[13][56](2|3+4|1)}
\end{aligned}$$