

$$\begin{aligned}
& \frac{-1/3(12)(23)(34)^2[14](46)[35]}{(14)\Delta_{14|23|56}(2|1+4|3)^2} + \\
& \frac{-1/4(34)^2[14](46)(26)(s_{14}-s_{56})[34]}{(23)(56)\Delta_{14|23|56}(2|1+4|3)^2} + \\
& \frac{-1/3[24][13][25](36)(24)^2 \dots \langle 8 \text{ terms} \rangle \dots + 1/2(12)(23)(46)[35][12]^2}{(2|1+4|3)^2\Delta_{14|23|56}} + \\
& \frac{(26)(-5/12(34)[24]^2[13](46)(24) \dots \langle 4 \text{ terms} \rangle \dots + 5/6(34)^2[23][13](36)[34])}{(56)(2|1+4|3)^2\Delta_{14|23|56}} + \\
& \frac{[35](s_{124}-s_{134})(-1/3(23)[12](46)-1/4(34)(36)[13])}{(2|1+4|3)^2\Delta_{14|23|56}} + \\
& \frac{(26)(s_{124}-s_{134})(-5/6(36)[12][13](14)+3/4(12)[12]^2(46)+3/4(34)(46)[24][13]+1/4(34)[12][34](46))}{(56)(2|1+4|3)^2\Delta_{14|23|56}} + \\
& \frac{(46)(34)(26)(s_{23}-s_{56})(1/3[23](13)(23)[13] \dots \langle 3 \text{ terms} \rangle \dots + 1/12[24]23(24))}{(14)(23)(56)(2|1+4|3)^2\Delta_{14|23|56}} + \\
& \frac{2/3(13)^2(26)[35][12]^2[34]^2(24)^2 \dots \langle 45 \text{ terms} \rangle \dots - 1/3(12)[45][24][13]^3(36)(14)(13)(24)}{(12)(14)[14](23)[23][34](56)[56](2|1+4|3)^2} + \\
& \frac{-1/12[23](34)^2(s_{124}-s_{134})(6|1+4|5)(s_{123}-s_{234})}{(14)\Delta_{14|23|56}^2(2|1+4|3)} + \\
& \frac{(34)^2[23](s_{23}-s_{56})(6|1+4|5)(1/48(13)[13]-3/1624-1/12(34)[34])}{(14)\Delta_{14|23|56}^2(2|1+4|3)} + \\
& \frac{5/24(12)(23)(34)^2[25][14](46)(s_{23}-s_{56})}{(14)\Delta_{14|23|56}^2(2|1+4|3)} + \\
& \frac{1/32(36)(3|1+4|2)[15](s_{14}-s_{56})(s_{123}-s_{234})(24)}{(23)\Delta_{14|23|56}^2(2|1+4|3)} + \\
& \frac{1/32(s_{25}+s_{35}+s_{26}+s_{36})(36)(3|1+4|2)[14](46)(s_{123}-s_{234})(24)}{(23)(56)\Delta_{14|23|56}^2(2|1+4|3)} + \\
& \frac{-1/32[13](36)(3|1+4|2)(s_{23}-s_{14})(46)(s_{123}-s_{234})}{(56)\Delta_{14|23|56}^2(2|1+4|3)} + \\
& \frac{(34)(s_{134}-s_{124})(s_{123}-s_{234})(7/12(36)[13][25]+29/96[14](46)[25]-1/2[35](36)[12])}{(2|1+4|3)\Delta_{14|23|56}^2} + \\
& \frac{(s_{123}-s_{234})(3|1+4|2)(-53/32[35](23)[12](46)-17/24(13)(46)[13][15]-17/96[35](34)(36)[13]+7/96[35](34)(46)[14])}{(2|1+4|3)\Delta_{14|23|56}^2} + \\
& \frac{(3|1+4|2)(4|2+3|1)(5/4(12)[12](16)[15] \dots \langle 5 \text{ terms} \rangle \dots + 101/48[35](23)(46)[24])}{(2|1+4|3)\Delta_{14|23|56}^2} + \\
& \frac{7/12(34)^3[24][13](36)[35][34] \dots \langle 33 \text{ terms} \rangle \dots + 1/6(34)(23)(13)(46)[35][12]^2[34]}{(2|1+4|3)\Delta_{14|23|56}^2} + \\
& \frac{1/12(34)(3|1+4|2)(13)(46)[35](24)}{(14)^2(23)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{1/12(34)^2(13)(s_{23}-s_{56})(46)[35]}{(14)^2(23)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{1/24(12)(34)(3|1+4|2)(s_{23}-s_{56})(46)^2}{(14)^2(23)(56)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{(34)(46)(-1/2[35](34)[24]-17/24[24][25](24)-11/8(13)[25][13]-13/12(12)[12][25])}{(14)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{1/12[23](34)(36)(4|2+3|1)(13)(26)}{(14)(23)(56)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{1/4(34)^2[23][14](13)(46)(26)}{(14)(23)(56)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{[23](36)(34)(46)(3/824+5/12(34)[34]-1/24(13)[13])}{(14)(56)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{-1/12[23](34)^2[45][25](24)}{(14)[56]\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{1(34)(s_{23}-s_{56})(46)[25]}{(14)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{(34)(s_{23}-s_{56})(1/8[25][13](36)(13)(24) \dots \langle 5 \text{ terms} \rangle \dots - 1/24(34)[45][24](46)(24))}{(14)(23)(56)[56]\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{(34)(s_{23}-s_{56})(-3/8[35](34)(46)[24] \dots \langle 4 \text{ terms} \rangle \dots - 5/24(12)[12](46)[25])}{(14)(56)[56]\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{7/24(34)(36)(s_{14}-s_{56})[15]}{(23)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{-7/24(34)(36)(s_{14}-s_{56})[12](26)}{(23)(56)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{(34)[14](s_{14}-s_{56})(-1/8(34)[45](46)+1/6[35](34)(36)+11/24(36)[25](24))}{(23)(56)[56]\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{(34)(36)(1/24(34)[45][13]-1/3(12)[12][15]-5/24(13)[13][15])}{(23)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{(34)(36)(46)[14](1/12(13)[13]+5/2424+1/8(34)[34])}{(23)(56)\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{-1/24[35](34)^3[45][14]}{(23)[56]\Delta_{14|23|56}(2|1+4|3)} + \\
& \frac{-35/24(34)(23)[24](46)[35][12] \dots \langle 18 \text{ terms} \rangle \dots - 1/24[23](34)(23)[25][13](36)}{(56)[56](2|1+4|3)\Delta_{14|23|56}} + \\
& \frac{1/6(13)^2(46)^2(24)}{(12)(14)^2(23)(56)(2|1+4|3)} + \\
& \frac{15/2(12)[24][25](23)[13]^2(13)(46)(24) \dots \langle 120 \text{ terms} \rangle \dots + 2/3[23][45](23)(13)(46)[12][34](24)^2}{(12)(14)[14](23)[23](24)[34](56)[56](2|1+4|3)} + \\
& \frac{-1/12(34)^2(13)(46)[25]}{(14)^2(23)\Delta_{14|23|56}} + \\
& \frac{1/6(34)(13)^2(46)^2}{(12)(14)^2(23)(56)(4|2+3|4)} + \\
& \frac{-1/3[13][15](13)^2(46)[12][34]}{(12)[13](14)[14][34](56)[56](1|5+6|1)} + \\
& \frac{(14)[12][15](2/3(36)[34](14)-1/12(13)[34](46)-1/4[23](13)(26))}{(12)[13](14)[34](56)[56](1|5+6|1)} + \\
& \frac{(34)[34][12][15](-1/3(13)(46)+2/3(36)(14))}{[13](14)(23)[34](56)[56](1|5+6|1)} + \\
& \frac{-1/6(13)^2[12][15]^2}{(12)[14][56](1|2+3|1)(1|5+6|1)} + \\
& \frac{(13)[12][15](-1/3[14](34)[25][13]+1/3[35](34)[12][14]-1/3[45][12]^2(24)-1/3(34)[12][45][13])}{[13][14](23)[23][56](1|2+3|1)(1|5+6|1)} + \\
& \frac{[12][15](7/4(12)[24](23)[35][12] \dots \langle 4 \text{ terms} \rangle \dots - 29/3[14](13)^2[35][13])}{(12)[13][14](23)[23][34][56](1|2+3|1)} + \\
& \frac{(13)[13][12][15](11/12(36)[34]+1/4(26)[24])}{(12)[13][14][34](56)[56](1|5+6|1)} + \\
& \frac{(24)[12][15](1/3(36)[24](14)-1/3(13)[12](16))}{(12)[13](23)[23](56)[56](1|5+6|1)} + \\
& \frac{-49/6[24][15](16)(1|3+4|1)[12]}{(12)[14][23][34](56)[56](1|5+6|1)} + \\
& \frac{[12][15](1/3(36)[24](14)-1/3(13)[12](16))}{(12)[14][23](56)[56](1|5+6|1)} + \\
& (123456 \rightarrow \overline{432165}) + \\
& \frac{-1/2(s_{13}-s_{24})(s_{124}-s_{134})(4|2+3|1)[35](26)}{\Delta_{14|23|56}(2|1+4|3)^3} + \\
& \frac{-5/12(3|1+4|2)(s_{13}-s_{24})(s_{124}-s_{134})(4|2+3|1)[35](26)}{\Delta_{14|23|56}^2(2|1+4|3)^2} + \\
& \frac{-35/384(s_{123}+s_{234})(3|1+4|2)(s_{124}-s_{134})(4|2+3|1)(6|1+4|5)(s_{123}-s_{234})}{\Delta_{14|23|56}^3(2|1+4|3)}
\end{aligned}$$