

$$\begin{aligned}
& \frac{-6[13](26)[35](24)^2(s_{124}s_{134}+s_{23}s_{14})(s_{124}-s_{134})[34]}{(21+4|3|^5)} + \\
& \frac{(24)(26)[24][13]^2[35](s_{124}-s_{134})(12)[12](24)(13)+6(14)(34)(14)+6(23)[23](34)+1234^2)}{(21+4|3|^4\Delta_{14|23|56})} + \\
& \frac{(24)(26)[13][35](6(24)^2[24]^2 \dots \langle 4 \text{ terms} \rangle \dots +18(12)[12](24)[24])}{(21+4|3|^4)} + \\
& \frac{9/8(s_{13}+s_{23}+s_{34})(s_{13}-s_{24})(26)[35]s_{14}(4|2+3|1)(s_{124}-s_{134})(s_{25}+s_{26}+s_{35}+s_{36})}{(21+4|3|^3\Delta_{14|23|56}^2)} + \\
& \frac{[35](26)(4|2+3|1)(-30[13][24](12)(34)^2[34] \dots \langle 8 \text{ terms} \rangle \dots +9(14)[13]^2[14](13)^2)}{(21+4|3|^3\Delta_{14|23|56})} + \\
& \frac{[35](26)(s_{124}-s_{134})(15/2(14)[14][12](34)(24)[34] \dots \langle 9 \text{ terms} \rangle \dots -9[23](12)[12]^2(24)(23))}{(21+4|3|^3\Delta_{14|23|56})} + \\
& \frac{(26)(s_{13}-s_{24})(-4(23)^2(26)[23]^3 \dots \langle 3 \text{ terms} \rangle \dots -6(16)[13]^3(13)^2)}{(56)(1|2+3|4|(21+4|3|^3)} + \\
& \frac{(26)(24)(-6(12)[12]^2(16)[13] \dots \langle 17 \text{ terms} \rangle \dots +6[13](46)(24)[24]^2)}{(56)(21+4|3|^3)} + \\
& \frac{[13](16)(24)(2|13|^2(36)(13)+2[13](46)[14](13)+2[13]34(36)+2(46)34[14])}{(56)(21+4|3|^3)} + \\
& \frac{[12][35](24)^2[45](6[12][12]+12(24)[24])}{[56](21+4|3|^3)} + \\
& \frac{6[23][35]^2[12](24)(23)^2}{[56](21+4|3|^3)} + \\
& \frac{(3|1+4|2)(s_{25}+s_{26}+s_{35}+s_{36})(4|2+3|1)(3[13]^2[35](26)(13)^2 \dots \langle 8 \text{ terms} \rangle \dots +3/4(46)(12)^2[35][14][12])}{\Delta_{14|23|56}^2(21+4|3|^2)} + \\
& \frac{(3|1+4|2)(4|2+3|1)(s_{124}-s_{134})(-3/2(26)[35][12](24)(13)[34] \dots \langle 3 \text{ terms} \rangle \dots -3/2(26)[23]^2[45](24)(23))}{\Delta_{14|23|56}^2(21+4|3|^2)} + \\
& \frac{[13](3|1+4|2)(s_{25}+s_{26}+s_{35}+s_{36})(s_{124}-s_{134})(-3/8(46)[35](34)(23)[34] \dots \langle 5 \text{ terms} \rangle \dots +21/8[13][35](13)(24)(36))}{\Delta_{14|23|56}^2(21+4|3|^2)} + \\
& \frac{(s_{25}+s_{26}+s_{35}+s_{36})(4|2+3|1)(s_{124}-s_{134})(-9/4(46)[24](12)[35][14](34)+9/4(14)[13](26)[45][12](13))}{\Delta_{14|23|56}^2(21+4|3|^2)} + \\
& \frac{5/2(46)[35][12]^2(24)(13)(23)[34] \dots \langle 45 \text{ terms} \rangle \dots +9(46)[23](12)[35][12]^2(23)^2}{(21+4|3|^2\Delta_{14|23|56})} + \\
& \frac{-42[13][24]^2(12)[35](34)(36)(24) \dots \langle 77 \text{ terms} \rangle \dots +485(46)(12)[35][12]^2(13)(23)[34]}{(56)[56](1|2+3|4|(21+4|3|^2)} + \\
& \frac{(3|1+4|2)(s_{25}+s_{26}+s_{35}+s_{36})(4|2+3|1)(135/16[13][24]^2(12)[35](34)(36)(24) \dots \langle 34 \text{ terms} \rangle \dots -15/4[13]^2(46)[23][45](13)^2(23))}{(21+4|3|^3\Delta_{14|23|56}^3)} + \\
& \frac{(s_{25}+s_{26}+s_{35}+s_{36})(4|2+3|1)(s_{124}-s_{134})(1085/32(14)^2[13][14]^2(36)(13)[25] \dots \langle 40 \text{ terms} \rangle \dots -135/32[23]^2(12)[45][12](34)(36)(23))}{(21+4|3|^3\Delta_{14|23|56}^3)} + \\
& \frac{(s_{123}-s_{234})(s_{25}+s_{26}+s_{35}+s_{36})(s_{124}-s_{134})(-15/32(46)[24][35][14](34)^3[34]-15/32[23](12)[35][12]^2(34)(36)(23)+15/32(46)(12)^2[13]^3[25](23))}{(21+4|3|^3\Delta_{14|23|56}^3)} + \\
& \frac{-4355/3[13](46)[24]^3[35](34)^2(24)(23) \dots \langle 180 \text{ terms} \rangle \dots +75/8[23]^2(12)[35][12]^2(34)(36)(23)^2}{(21+4|3|^3\Delta_{14|23|56}^2)} + \\
& \frac{-432997/432(46)[24][35][12](34)(23) \dots \langle 19 \text{ terms} \rangle \dots -3725/12[13][23](34)(36)[25](23)}{(21+4|3|^3\Delta_{14|23|56})} + \\
& \frac{-44[25](14)^2(36)[14]^2 \dots \langle 32 \text{ terms} \rangle \dots +183/2(46)[24](12)[45][12](34)}{(56)[56](1|2+3|4|(21+4|3|)} + \\
& \frac{(3|1+4|2)(s_{25}+s_{26}+s_{35}+s_{36})(4|2+3|1)(385/8[25](14)^2(36)[14]^2 \dots \langle 30 \text{ terms} \rangle \dots +2285/72(46)[24][35][12](13)(23))}{\Delta_{14|23|56}^3} + \\
& \frac{[12](13)(s_{25}+s_{26}+s_{35}+s_{36})(4|2+3|1)(s_{124}-s_{134})(-145/32[25](46)(23)[24] \dots \langle 4 \text{ terms} \rangle \dots -545/32[25](12)[12](36))}{\Delta_{14|23|56}^3} + \\
& \frac{(3|1+4|2)(s_{25}+s_{26}+s_{35}+s_{36})(s_{123}-s_{234})(-15/32[13](46)[24](34)[25](23) \dots \langle 6 \text{ terms} \rangle \dots +15/32[23][35][12](34)(36)(23))}{\Delta_{14|23|56}^3} + \\
& (123456 \rightarrow 432165) + \\
& \frac{15/8s_{56}(s_{13}-s_{24})s_{23}s_{14}(4|2+3|1)(6|1+4|5)(s_{124}-s_{134})(s_{25}+s_{26}+s_{35}+s_{36})}{\Delta_{14|23|56}^3(21+4|3|^2)} + \\
& \frac{105/128s_{56}s_{23}s_{14}(3|1+4|2)(4|2+3|1)(s_{123}-s_{234})(6|1+4|5)(s_{124}-s_{134})(s_{25}+s_{26}+s_{35}+s_{36})}{\Delta_{14|23|56}^2(21+4|3|)}
\end{aligned}$$