

$$\begin{aligned}
& \frac{-15/2[13]^2(14)(23)(26)[35][56](s_{134}-s_{124})}{(2|1+4|3|^4\Delta_{14|23|56}} + \\
& \frac{-45/8[13](24)(26)[35](2|5+6|2)[3|1+4|2]s_{134}(s_{124}-s_{134})}{(2|1+4|3|^3\Delta_{14|23|56}^2} + \\
& \frac{[13](26)(s_{124}-s_{134})(30[13](14)(34)[45] \dots \langle 9 \text{ terms} \rangle \dots +15/4[12](14)(24)[45])}{(2|1+4|3|^3\Delta_{14|23|56}} + \\
& \frac{[13](26)(s_{13}-s_{24})(s_{124}-s_{134})(-15/4(14)(24)[24][45]+15/4(13)[23](24)[45]+15/4(13)(23)[23][35])}{(1|2+3|4|(2|1+4|3|^3\Delta_{14|23|56}} + \\
& \frac{[13](26)(-135/4[13][13]^2(14)(34)[45] \dots \langle 21 \text{ terms} \rangle \dots -30[13](14)(34)^2[34][45])}{(2|1+4|3|^3\Delta_{14|23|56}} + \\
& \frac{[13](26)(s_{13}-s_{24})(-15/4(14)(24)^2[24]^2[45]-15/2(13)^2[13][23](24)[45]-15/4(13)^2[13](23)[23][35])}{(1|2+3|4|(2|1+4|3|^3\Delta_{14|23|56}} + \\
& \frac{[13](26)(-12(24)[24][35]+15[23](24)[45]+3(34)[34][35]+15(13)[13][35])}{[34](2|1+4|3|^3} + \\
& \frac{-75/32(23)[23][35](3|1+4|2|(4|2+3|1|s_{124}+s_{134})(26)(s_{124}-s_{134})}{(2|1+4|3|^2\Delta_{14|23|56}^2} + \\
& \frac{(26)(s_{13}-s_{24})(-5/8(13)^3[13]^2[24][35] \dots \langle 5 \text{ terms} \rangle \dots +5/8(13)^2[13](23)[23]^2[45])}{(1|2+3|4|^2(2|1+4|3|^2\Delta_{14|23|56}} + \\
& \frac{601/8(12)[13](24)[24]^2(34)[35](36) \dots \langle 162 \text{ terms} \rangle \dots +5/8(23)[23]^2(24)^2[24](36)[45]}{(1|2+3|4|(2|1+4|3|^2\Delta_{14|23|56}} + \\
& \frac{3/8[15](24)(36)(3|1+4|3|(s_{14}-s_{56}))}{(23)(2|1+4|3|^2\Delta_{14|23|56}} + \\
& \frac{[24](26)^2(s_{13}-s_{24})(-8(14)^2[14][24]+5(13)(23)[23]^2-13[13][13](14)[24])}{(14)[14](56)(1|2+3|4|^2(2|1+4|3|^2} + \\
& \frac{[24](26)(13)[35](s_{13}-s_{24})(-5(23)[23]+5/2(13)[13])}{(14)[14](1|2+3|4|^2(2|1+4|3|^2} + \\
& \frac{-1(24)[24]^2(26)[45](s_{13}-s_{24})}{[14](1|2+3|4|^2(2|1+4|3|^2} + \\
& \frac{[24](26)(13)(4|2+3|1|[13](s_{13}-s_{24})(15/8(14)(24)[24][45]+15/4(13)(23)(24)[45]+15/8(13)(23)[23][35])}{(1|2+3|4|(2|1+4|3|^2\Delta_{23|14|56}^2} + \\
& \frac{[13](s_{134}-s_{124})(55/16(12)^2[14][24]^2(34)^2[35](46) \dots \langle 39 \text{ terms} \rangle \dots -5/8(13)^2[13](23)^2[23]^2[45](46))}{(1|2+3|4|(2|1+4|3|^2\Delta_{23|14|56}^2} + \\
& \frac{(26)(3[13]^2(14)^2[24]^2(36) \dots \langle 10 \text{ terms} \rangle \dots +2(13)[13]^2(14)[23][24](36))}{(14)[14][23](56)(1|2+3|4|(2|1+4|3|^2} + \\
& \frac{1/2[23](24)^2[24]^2[35](36) \dots \langle 22 \text{ terms} \rangle \dots -7/2[12](13)(23)[23][34][35](46)}{(14)[14][23](1|2+3|4|(2|1+4|3|^2} + \\
& \frac{[12](13/2(13)[13]^2(16)[45] \dots \langle 8 \text{ terms} \rangle \dots -1/2(24)[24]^2(26)[35])}{[14][23](1|2+3|4|(2|1+4|3|^2} + \\
& \frac{[35](-1/2(24)[24]^2(46)-1/2[12](14)[24](26)-13/2[12](13)[13](16))}{[23](1|2+3|4|(2|1+4|3|^2} + \\
& \frac{(26)(-17/2(12)[13]^2(34)[45] \dots \langle 7 \text{ terms} \rangle \dots -3/2[13](24)^2[24][45])}{(24)(34)(2|1+4|3|^2(2|1+3|4} + \\
& \frac{(26)^2(14)[13][14](-9(12)[12]-9(14)[14]-9(13)[13])}{(24)(34)(56)(2|1+4|3|^2(2|1+3|4} + \\
& \frac{(3|1+4|2|(26)[13](4|2+3|1|(-15/4(14)(24)[24][45] \dots \langle 10 \text{ terms} \rangle \dots +15/4(13)(14)[14][35])}{(2|1+4|3|^2\Delta_{23|14|56}^2} + \\
& \frac{[13](3|1+4|2|(26)(165/8(13)[13]^2(14)(34)[45] \dots \langle 13 \text{ terms} \rangle \dots -165/8(12)[13](14)[14][25](34))}{(2|1+4|3|^2\Delta_{23|14|56}^2} + \\
& \frac{(26)[13](4|2+3|1|(-15/4(13)(24)[24]^2(34)[35]-15/8(14)(24)[24]^2(34)[45]-15/4(13)^2[13](24)[24][25]+15/8(12)(13)^2(23)[23][35])}{(2|1+4|3|^2\Delta_{23|14|56}^2} + \\
& \frac{(s_{134}-s_{124})(-45/8[12]^2(13)(23)(24)[34][35](46) \dots \langle 81 \text{ terms} \rangle \dots +35/16[13](23)^2[23]^2(34)[45](46))}{(2|1+4|3|^2\Delta_{23|14|56}^2} + \\
& \frac{1/8(24)[35](46)(3|1+4|2|(s_{23}-s_{56}))}{(14)(2|1+4|3|^2\Delta_{23|14|56}} + \\
& \frac{1/8[12][13](26)(3|1+4|5|(s_{23}-s_{56}))}{[14](2|1+4|3|^2\Delta_{23|14|56}} + \\
& \frac{525/256(14)(23)[23](56)(3|1+4|2|(4|2+3|1|[6|1+4|5](s_{134}-s_{124})[14][56](s_{13}+s_{24}+s_{12}+s_{34})}{(2|1+4|3|\Delta_{14|23|56}^4} + \\
& \frac{-525/128(14)[14](23)^2[23]^2(56)[56](3|1+4|2|(4|2+3|1|[6|1+4|5](s_{134}-s_{124}))}{(2|1+4|3|\Delta_{14|23|56}^4} + \\
& \frac{(23)(4|2+3|1|(3|1+4|2|56(6|1+4|5)[23](s_{13}-s_{24})(-675/64(13)[34]-325/32(12)[24])}{(1|2+3|4|(2|1+4|3|\Delta_{14|23|56}^3} + \\
& \frac{(3|1+4|2|(s_{13}-s_{24})(s_{25}+s_{26}+s_{35}+s_{36})(12525/512(12)[13](24)[24]^2(34)[35](36) \dots \langle 182 \text{ terms} \rangle \dots -1675/128(12)[12][23](24)^2[24](36)[45])}{(1|2+3|4|(2|1+4|3|\Delta_{14|23|56}^3} + \\
& \frac{(s_{13}-s_{24})(s_{124}-s_{134})(s_{25}+s_{26}+s_{35}+s_{36})(25/64[12](14)^2[14](34)[34](36)[45] \dots \langle 35 \text{ terms} \rangle \dots -25/64[12](13)^2[13](23)(24)(36)[45])}{(1|2+3|4|(2|1+4|3|\Delta_{14|23|56}^3} + \\
& \frac{(46)(3|1+4|2|(s_{25}+s_{26}+s_{35}+s_{36})(-175/64(12)^2[12]^3(23)[35] \dots \langle 3 \text{ terms} \rangle \dots +175/64(12)^3[12]^3[15])}{(2|1+4|3|\Delta_{14|23|56}^3} + \\
& \frac{(3|1+4|2|(s_{25}+s_{26}+s_{35}+s_{36})(25/64(12)^2[13]^2[23][24](34)^2(36)[45] \dots \langle 30 \text{ terms} \rangle \dots +25/64(13)^2[13]^2(23)[23](34)[34][45](46))}{(1|2+3|4|(2|1+4|3|\Delta_{14|23|56}^3} + \\
& \frac{-15/32[12][15](34)(46)(2|1+3|2|[3|2+4|3|(s_{12}-s_{34})}{(2|1+4|3|(4|2+3|1|\Delta_{14|23|56}^2} + \\
& \frac{-5/8(13)(16)[24][45](3|1+2|3|s_{234}(s_{13}-s_{24}))}{(1|2+3|4|^3(2|1+4|3|\Delta_{14|23|56}} + \\
& \frac{-2(13)(23)(24)[24]^3[35](46) \dots \langle 69 \text{ terms} \rangle \dots +3/4(13)[24](34)^2[34]^2[35](36)}{(1|2+3|4|^2(2|1+4|3|\Delta_{14|23|56}} + \\
& \frac{-128558999/23040(14)^2[14]^2[25](36) \dots \langle 60 \text{ terms} \rangle \dots -4875/128(13)[13](23)[23][25](36)}{(1|2+3|4|(2|1+4|3|\Delta_{14|23|56}} + \\
& \frac{-1/4[12][15](34)(46)(s_{12}-s_{34})}{(2|1+4|3|(4|2+3|1|\Delta_{14|23|56}} + \\
& \frac{-3/8[12][25](46)(2|1+4|2|}{[23](2|1+4|3|\Delta_{14|23|56}} + \\
& \frac{-35/32(13)(16)[24][45](3|1+2|3|[4|2+3|1|s_{234}(s_{13}-s_{24}))}{(1|2+3|4|^2(2|1+4|3|\Delta_{23|14|56}^2} + \\
& \frac{[24]s_{234}(13)(4|2+3|1|(s_{123}-s_{234})(-5/16(12)[12](16)[45] \dots \langle 5 \text{ terms} \rangle \dots +5/32(14)(24)(26)[45])}{(1|2+3|4|^2(2|1+4|3|\Delta_{23|14|56}^2} + \\
& \frac{[24]s_{234}(3|1+2|3|(13)(s_{123}-s_{234})(-5/16(12)[12][15](16) \dots \langle 5 \text{ terms} \rangle \dots +5/16(12)[12][45](46))}{(1|2+3|4|^2(2|1+4|3|\Delta_{23|14|56}^2} + \\
& \frac{[24]^2(26)(-5/2(14)^2[14][24][35]-8(13)[13](14)[23][45]+5/2(13)^2[13][23][35]-1(14)[23](24)[24][45])}{(14)[14][23][34](1|2+3|4|^2(2|1+4|3} + \\
& \frac{[24](26)(-8[13](14)^2[24]^2(36)-8(14)^2[14][24]^2(46)+5(13)(23)[23]^2[24](46)-5(13)^2[13][23]^2(36))}{(14)[14][23](56)(1|2+3|4|^2(2|1+4|3} + \\
& \frac{5(13)[13][24]^2(26)^2(1|3+4|2|}{(14)[14][34](56)(1|2+3|4|^2(2|1+4|3} + \\
& \frac{8[13][24]^3(26)^2(1|3+4|2|}{[14][23][34](56)(1|2+3|4|^2(2|1+4|3} + \\
& \frac{[24](8(23)[23][24][35](36) \dots \langle 6 \text{ terms} \rangle \dots +8(23)[23][24][25](26))}{[14][23](1|2+3|4|^2(2|1+4|3} + \\
& \frac{[24]^2[25](5/2(14)(26)-8(12)(46))}{[23](1|2+3|4|^2(2|1+4|3} + \\
& \frac{9(12)[13](14)[24][35](36) \dots \langle 8 \text{ terms} \rangle \dots -3/2(14)(34)[34]^2[35](36)}{(24)[34](1|2+3|4|(1|2+3|4|(2|1+4|3} + \\
& \frac{(16)(-5(34)^2[34]^3(46) \dots \langle 5 \text{ terms} \rangle \dots +4(23)[23]^2(24)[24](26))}{(24)[34](56)(1|2+3|4|(1|2+3|4|(2|1+4|3} + \\
& \frac{-5/2(13)(23)[23][35](46) \dots \langle 8 \text{ terms} \rangle \dots -7/2(13)(34)[34][35](46)}{(14)(24)[34](1|2+3|4|(2|1+4|3} + \\
& \frac{(46)(-11(13)(23)[23][34](46) \dots \langle 4 \text{ terms} \rangle \dots +5(12)(23)[23]^2(36))}{(14)(24)[34](56)(1|2+3|4|(2|1+4|3} + \\
& \frac{-1[12](14)[24](26)(46)}{[23](24)(56)(1|2+3|4|(2|1+4|3} + \\
& \frac{98060669/46080(13)[13](14)^3[14]^3[25](36) \dots \langle 402 \text{ terms} \rangle \dots -3365/128(12)[12](23)^2[23](24)[24]^2[25](46)}{(1|2+3|4|(2|1+4|3|\Delta_{23|14|56}^2} + \\
& \frac{[24](12(14)[14][24][35](46) \dots \langle 8 \text{ terms} \rangle \dots +5(23)[23]^2(35)(36))}{(14)[14][23][34](1|2+3|4|(2|1+4|3} + \\
& \frac{[24](26)(1[13](14)[23][24](36) \dots \langle 4 \text{ terms} \rangle \dots +6[13](14)[24]^2(46))}{(14)[14][23][34](56)(1|2+3|4|(2|1+4|3} + \\
& \frac{(26)(-8[23]^2[24](34)(36)-6[12](13)[23]^2(36)-2[12](14)[24](34)(36)-6[12](14)[24]^2(46))}{(14)[14][23](56)(1|2+3|4|(2|1+4|3} + \\
& \frac{(36)(46)(2[13](14)[24]^2 \dots \langle 3 \text{ terms} \rangle \dots -1[23](24)[24]^2)}{(14)[14][23](56)(1|2+3|4|(2|1+4|3} + \\
& \frac{(36)(12)^2(16)(-2(14)[34]+6(12)[23])}{(14)[14][23](56)(1|2+3|4|(2|1+4|3} + \\
& \frac{6[23](24)[24][25](36) \dots \langle 8 \text{ terms} \rangle \dots +1(23)[23]^2[25](36)}{(14)[14][23](1|2+3|4|(2|1+4|3} + \\
& \frac{[24](-3/2[13][25](36)+8[12][35](36)+17/2[12][45](46)-33/2[12][25](26))}{[14][23](1|2+3|4|(2|1+4|3} + \\
& \frac{-23/2[24][25](46)}{[23](1|2+3|4|(2|1+4|3} + \\
& \frac{(26)(3(12)[13][14](34)(46) \dots \langle 5 \text{ terms} \rangle \dots -3(13)[13][14](24)(46))}{(24)^2[34](56)(2|1+4|3|(2|1+3|4} + \\
& \frac{-1[12](14)(26)[35] \dots \langle 4 \text{ terms} \rangle \dots -5(23)[23][35](46)}{(24)[34](1|2+4|3|(2|1+4|3} + \\
& \frac{[13](16)(-2[13](14)(36)-1[12](14)(26)-5(34)[34](46)+4(23)[23](46))}{(24)[34](56)(1|2+4|3|(2|1+4|3} + \\
& \frac{1[13](14)[34](36)(46)}{(24)[34](56)(1|2+4|3|(2|1+4|3} + \\
& \frac{-6[13](23)(26)[45](4|2+3|4)}{(24)[34](2|1+4|3|(2|1+3|4|^2} + \\
& \frac{(26)(-3[13](34)[45] \dots \langle 3 \text{ terms} \rangle \dots -5/2(14)[14][15])}{(24)[34](2|1+4|3|(2|1+3|4} + \\
& \frac{-19/2(14)[15](46)}{(14)(24)[34](2|1+4|3} + \\
& \frac{(46)(-6[12](14)(26)-6[13](14)(36)+5(23)[23](46))}{(14)(24)[34](56)(2|1+4|3} + \\
& \frac{(34)(46)(1/2[25](3|1+4|3|-1/8[35](3|1+4|2|))}{(14)(2|1+4|3|\Delta_{23|14|56}} + \\
& \frac{[12]^2(-1/2(23)(6|1+4|5|+3/8(26)(3|1+4|5))}{[14](2|1+4|3|\Delta_{23|14|56}} + \\
& \frac{3/8[15](24)(36)(3|1+4|2|}{(23)(2|1+4|3|\Delta_{23|14|56}} + \\
& \frac{-1(16)[23][35]s_{234}}{[34](1|2+4|3|^2(2|1+4|3} + \\
& \frac{-6(16)(23)[23]^2[35]}{[34](1|2+4|3|^2(2|1+4|3} + \\
& \frac{5[13](26)[45](3|1+2|4|}{[34](2|1+4|3|^2(2|1+3|4} + \\
& \frac{(3|1+4|2|(s_{25}+s_{26}+s_{35}+s_{36})(-1425/64(13)[13](14)^2[14]^2[25](36) \dots \langle 86 \text{ terms} \rangle \dots -125/64(12)[13][23][24](34)^2(36)[45])}{(1|2+3|4|\Delta_{14|23|56}^3} + \\
& \frac{(13)[13](s_{124}-s_{134})(s_{25}+s_{26}+s_{35}+s_{36})(25/32[23][24](34)^2(36)[45] \dots \langle 3 \text{ terms} \rangle \dots +25/64[12](13)^2[14][25](46))}{(1|2+3|4|\Delta_{14|23|56}^3} + \\
& \frac{(34)[12][15](46)(-15/32[24](34)(2|1+3|2|+15/32[12](13)(3|2+4|3|-15/32[12](13)(24)[24])}{(4|2+3|1|\Delta_{14|23|56}^2} + \\
& \frac{-5/8(13)(16)[24][45](3|1+4|2|s_{234}}{(1|2+3|4|^3\Delta_{14|23|56}} + \\
& \frac{-5/8(13)(16)[24]^2(34)[45]s_{234}}{(1|2+3|4|^3\Delta_{14|23|56}} + \\
& \frac{35/32[12](13)^2(16)[24][45](4|2+3|1|s_{234}}{(1|2+3|4|^2\Delta_{23|14|56}^2} + \\
& \frac{(13)[24]s_{234}(s_{123}-s_{234})(15/32(13)[13][25](36)+15/32(12)[12][25](36)-5/16[12](13)[45](46)+5/16(12)(13)[15](16))}{(1|2+3|4|^2\Delta_{23|14|56}^2} + \\
& \frac{2(34)(46)^3(3|2+4|3|}{[23](34)^3(56)(1|2+3|4} + \\
& \frac{1[24](34)(46)(6|1+5|3|}{[23](24)^2[34](56)(1|2+3|4} + \\
& \frac{-2(34)(46)(6|1+5|4|}{(24)^2[34](56)(1|2+3|4} + \\
& \frac{-2[24](26)(34)(46)}{(24)^2[34](56)(1|2+3|4} + \\
& \frac{2(13)[13](16)[25] \dots \langle 7 \text{ terms} \rangle \dots +3(12)[24][25](46)}{(24)[34](1|2+4|3|(1|2+3|4} + \\
& \frac{-8(14)[25](36)}{(14)(24)[34](1|2+3|4} + \\
& \frac{(46)(5(14)[24](36)-7[13](24)(46)+5(13)[23](36))}{(14)(24)[34](56)(1|2+3|4}
\end{aligned}$$