

$$\begin{aligned} & \frac{7/16(s_{13}-s_{24})[24](26)(13)(4)(2+3)[1](3)(1+4)(2)[35]}{(1|2+3|4)(2|1+4|3)\Delta_{14|23|56}^2} + \\ & \frac{1/8(2|1+4|5)(s_{23}-s_{56})(34)(3)(1+4)(2)[23](46)}{(14)\Delta_{14|23|56}^2(2|1+4|3)} + \\ & \frac{-3/8(2|3+4|1)(s_{23}-s_{14})(36)(3)(1+4)(2)[23](46)}{(56)\Delta_{14|23|56}^2(2|1+4|3)} + \\ & \frac{(4|2+3|1)(13)(36)(3)(1+4)(2)(-7/16[35][24]-7/16[23][45])}{(1|2+3|4)\Delta_{14|23|56}^2} + \\ & (123456 \rightarrow -432165) + \\ & \frac{[24](34)(-1[13][25](36)-1[25][14](46)+1[35](36)[12]+1[45](46)[12])}{[34](56)[56]s_{234}(4|2+3|4)} + \\ & \frac{3[13](24)(26)(3)(1+4)(2)[35](s_{124}-s_{134})}{\Delta_{14|23|56}(2|1+4|3)^3} + \\ & \frac{5/2[13](24)(26)(3)(1+4)(2)^2[35](s_{124}-s_{134})}{\Delta_{14|23|56}^2(2|1+4|3)^2} + \\ & \frac{1[12](24)(26)(3)(1+4)(2)[35]}{\Delta_{14|23|56}(2|1+4|3)^2} + \\ & \frac{-1(s_{13}-s_{24})[13](26)(13)(3)(1+4)(2)[35]}{\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)^2} + \\ & \frac{-1[13](34)(36)[35](s_{124}-s_{134})}{\Delta_{14|23|56}(2|1+4|3)^2} + \\ & \frac{-1/2[13](26)(34)[25](s_{124}-s_{134})}{\Delta_{14|23|56}(2|1+4|3)^2} + \\ & \frac{[35](s_{124}-s_{134})(s_{13}-s_{24})(1/2(24)(36)[24]-1/2[24](23)(46)-1/2(26)(13)(12))}{\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)^2} + \\ & \frac{(26)(s_{124}-s_{134})(1/2[13](36)(14)[12]+1/2[13][24](34)(46)-1/2[34](34)(46)[12])}{(56)\Delta_{14|23|56}(2|1+4|3)^2} + \\ & \frac{[35](s_{124}-s_{134})(1[35](34)^2[14]-1/2[13][25](23)(34)-1/2(12)[15](34)[12]+1/2(24)[15](13)[12])}{[56]\Delta_{14|23|56}(2|1+4|3)^2} + \\ & \frac{-1[35]^2(24)(3)(1+4)(2)}{[56](1|2+4|3)(2|1+4|3)^2} + \\ & \frac{-2[35][23](34)(26)}{(1|2+4|3)(2|1+4|3)^2} + \\ & \frac{-2[35]^2(34)(2|3+4)(2)}{[56](1|2+4|3)(2|1+4|3)^2} + \\ & \frac{-4[35](34)[15]}{[56](2|1+4|3)^2} + \\ & \frac{35/32(6|1+4|5)(s_{15}+s_{16}+s_{45}+s_{46})(4|2+3|1)(3)(1+4)(2)s_{23}(s_{134}-s_{124})}{\Delta_{14|23|56}^3(2|1+4|3)} + \\ & \frac{1/4[34](4|2+3|1)(13)(s_{123}-s_{234})(3)(1+4)(2)(6|1+4|5)}{(1|2+3|4)(2|1+4|3)\Delta_{14|23|56}^2} + \\ & \frac{(4|2+3|1)(s_{123}-s_{234})(3)(1+4)(2)(-1/8[35](13)(36)[34]-1/8[35][24](26)(13)-1/2(12)[45](36)(23))}{(1|2+3|4)(2|1+4|3)\Delta_{14|23|56}^2} + \\ & \frac{-1/4(6|1+4|5)(s_{13}-s_{24})(23)(s_{123}-s_{234})(3)(1+4)(2)[23]}{(1|2+3|4)(2|1+4|3)\Delta_{14|23|56}^2} + \\ & \frac{3/8(s_{13}-s_{24})[24](23)(s_{123}-s_{234})(3)(1+4)(2)[35](46)}{(1|2+3|4)(2|1+4|3)\Delta_{14|23|56}^2} + \\ & \frac{(4|2+3|1)(3)(1+4)(2)(-35/4(12)[15](16)[12] \dots \langle 13 \text{ terms} \rangle \dots + 73/8[25](24)(26)[24])}{\Delta_{14|23|56}^2(2|1+4|3)} + \\ & \frac{(3)(1+4)(2)(-3/8[12](24)^2(26)[24][25] \dots \langle 9 \text{ terms} \rangle \dots - 8[34][12](23)(34)[35](46))}{\Delta_{14|23|56}^2(2|1+4|3)} + \\ & \frac{(4|2+3|1)(s_{124}-s_{134})(1/2[45][23](34)(36) \dots \langle 7 \text{ terms} \rangle \dots + 29/4[24](34)[45](46))}{\Delta_{14|23|56}^2(2|1+4|3)} + \\ & \frac{(s_{124}-s_{134})(-65/8[12][24](23)(34)[35](46) \dots \langle 12 \text{ terms} \rangle \dots + 1/2[14][24](34)^2[35](46))}{\Delta_{14|23|56}^2(2|1+4|3)} + \\ & \frac{(13)[24](6|1+4|5)(s_{13}-s_{24})(-1/2[13](13)-1/2[23](23))}{\Delta_{14|23|56}(1|2+3|4)^2(2|1+4|3)} + \\ & \frac{-1/2[24](13)^2(s_{13}-s_{24})(s_{123}-s_{234})[35](46)}{(14)\Delta_{14|23|56}(1|2+3|4)^2(2|1+4|3)} + \\ & \frac{3/2(s_{13}-s_{24})[24](13)(34)[35](46)}{(14)\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{(s_{23}-s_{56})(46)(-1/2[14](24)[24](13)[25] \dots \langle 4 \text{ terms} \rangle \dots + 1/2(24)(34)[45][24]^2)}{(14)[14]\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{-1/2[12][24](23)[45](3)(1+4)(3)(46)}{[14]\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{-1(s_{23}-s_{56})[12][24](23)[45](46)}{[14]\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{[24](26)(1/4[24](23)(34)[23](46) \dots \langle 3 \text{ terms} \rangle \dots - 1/4[12](24)[24](13)(46))}{(56)\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{(26)(s_{14}-s_{23})(-3/4[24][23](34)(36)-3/4[24]^2(34)(46)+1/4[23](13)(36)[12]+1/2[24](36)(14)[12])}{(56)\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{(36)[34](46)(s_{14}-s_{23})(-1/4[24](34)+1/4(13)[12])}{(56)\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{-1/2[34](s_{14}-s_{23})(34)(36)^2[23]}{(56)\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{[25](-1/8[14][24](12)(34)^2[35]+1/2[14](14)[12](12)(34)[45]-3/8[14][34](14)(34)^2[45]+1/8[25](12)^2(23)[12]^2)}{[56]\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{[25](s_{14}-s_{23})(-11/8[45](34)^2[34] \dots \langle 4 \text{ terms} \rangle \dots + 1/8[25](12)(23)[12])}{[56]\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{1/2(s_{14}-s_{23})[24](34)^2[35][45]}{[56]\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{5/4[25][14]^2(14)^2(36) \dots \langle 56 \text{ terms} \rangle \dots - 25/8[12](24)[24](13)(26)[25]}{\Delta_{14|23|56}(1|2+3|4)(2|1+4|3)} + \\ & \frac{1/2[12](13)(34)[35](46)}{(14)\Delta_{14|23|56}(2|1+4|3)} + \\ & \frac{1/2(6|1+4|5)(23)[12]^2}{[14]\Delta_{14|23|56}(2|1+4|3)} + \\ & \frac{[12](26)(-1[23](34)(36)-1/4(13)(46)[12])}{(56)\Delta_{14|23|56}(2|1+4|3)} + \\ & \frac{[25](-3[35](34)^2[14] \dots \langle 3 \text{ terms} \rangle \dots - 1/8(24)[15](13)[12])}{[56]\Delta_{14|23|56}(2|1+4|3)} + \\ & \frac{2(14)(24)(26)[24]^2[25] \dots \langle 29 \text{ terms} \rangle \dots + 261/8(12)(34)(36)[23]^2[45]}{(14)[34](56)[56](1|2+3|4)(2|1+4|3)} + \\ & \frac{1[35][45][23](34)}{[34][56](1|2+4|3)(2|1+4|3)} + \\ & \frac{-2[35](34)(16)[12]}{(56)[56](1|2+4|3)(2|1+4|3)} + \\ & \frac{3[35][25](34)}{[56](1|2+4|3)(2|1+4|3)} + \\ & \frac{1[13][24](12)(34)(36)[35] \dots \langle 6 \text{ terms} \rangle \dots + 1[13][24](13)(23)[35](46)}{(14)[34](56)[56](2|1+4|3)(2|1+3|4)} + \\ & \frac{2[35][24](34)(46) \dots \langle 6 \text{ terms} \rangle \dots - 229/8[25][14](46)(14)}{(14)[34](56)[56](2|1+4|3)} + \\ & \frac{3/8[24](23)(s_{123}-s_{234})(3)(1+4)(2)[25](46$$