

$$\begin{aligned}
& \frac{-1/4[23]^2[14]^2(16)^2}{[34]^3\langle 56 \rangle [1]5+6[1](1|2+4|3)} + \\
& \frac{-1/8[24]^2[13](26)^2}{\langle 12 \rangle [34]^3\langle 56 \rangle (2|3+4|1)} + \\
& \frac{1/4[24][45][35]}{\langle 12 \rangle [34]^3[56]} + \\
& \frac{3/8(14)^2[24][14][35]^2}{\langle 12 \rangle [34]^2[56](1|2+4|3)\langle 4|1+2|3 \rangle} + \\
& \frac{2/9(46)[35](14)^2[14]^3[34](12) \dots \langle 40 \text{ terms} \rangle \dots -1/4(46)[45](24)(34)[34]^3(12)[12]}{(12)(24)\langle 56 \rangle [13][34]^2[56](1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{-3/4[24][13][12](16)^2}{[34]^2\langle 56 \rangle (1|5+6|1)\langle 1|2+4|3 \rangle} + \\
& \frac{-13/4(6|1+5|3)[24](36)[23]}{[34]^2\langle 56 \rangle (1|2+4|3)\langle 3|2+4|3 \rangle} + \\
& \frac{-43/12(46)(14)[45][13][24](24)[34] \dots \langle 51 \text{ terms} \rangle \dots -5/72(23)[35][24][23]^2(26)(24)}{(12)(24)\langle 56 \rangle [13][34]^2[56](1|2+4|3)} + \\
& \frac{-9/2(23)(46)[35](13)[13](24)[34]^2[12] \dots \langle 52 \text{ terms} \rangle \dots +1/2(46)[45][13]^3(13)(34)[34](12)}{(12)[13](24)[34]^2[56][56](2|1+4|3)\langle 3|5+6|3 \rangle} + \\
& \frac{1/8(23)^2(46)[35][24][13][23] \dots \langle 76 \text{ terms} \rangle \dots +3/8[35](13)(26)(24)[34][12]^2}{(12)[13](24)[34]^2[56][56](3|5+6|3)} + \\
& \frac{7/8(23)^3(46)[35][13][23][34]^2 \dots \langle 17 \text{ terms} \rangle \dots -3/8[45][13]^3(13)^2(26)(24)[34]}{(12)(24)\langle 56 \rangle [13][34]^2[56](2|1+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{3/4[13][25](26)(12)^2[12] \dots \langle 34 \text{ terms} \rangle \dots +7/8(23)(46)[35][34](12)[12]}{(12)(24)\langle 56 \rangle [34]^2[56](2|1+4|3)} + \\
& \frac{3/8(23)[24][13]^2(13)(26)^2}{\langle 12 \rangle (24)[34]^2\langle 56 \rangle (2|3+4|1)\langle 2|1+3|4 \rangle} + \\
& \frac{3/8(23)[24][13]^2[25](26)(12) \dots \langle 54 \text{ terms} \rangle \dots -1/4[45](26)(24)[34](12)[12]^2}{(12)(24)\langle 56 \rangle [13][34]^2[56](2|1+3|4)} + \\
& \frac{[13][24](26)(-1(36)(24)+5/8(23)(46))}{(12)(24)[34]^2\langle 56 \rangle (2|3+4|1)} + \\
& \frac{-3/8[24](24)[15][45]}{\langle 12 \rangle [34]^2[56](2|3+4|1)} + \\
& \frac{43/12(23)(46)[35][24][13] \dots \langle 31 \text{ terms} \rangle \dots +1(23)[35][23](26)[12]}{(12)(24)\langle 56 \rangle [13][34]^2[56]} + \\
& \frac{(16)(3/8(13)[23]^2(24)^2(26)[34][12] \dots \langle 5 \text{ terms} \rangle \dots +1/8(36)[24][23]^2(24)^3[34])}{(12)[13](24)[34](56)(1|2+4|3)^2\langle 3|5+6|3 \rangle} + \\
& \frac{(14)^2[45][35](-1/8(14)^2[13][14]-1/8(23)(24)[23]^2)}{(12)(24)[34][56](1|2+4|3)^2\langle 4|1+2|3 \rangle} + \\
& \frac{(46)[23](1/8(14)[13](13)[34](16)+1/8(14)^2[14][34](16)+1/8(12)^2(46)[24][23]+1/8(12)^2(36)[23]^2)}{(12)[34](56)(1|2+4|3)^2\langle 4|1+2|3 \rangle} + \\
& \frac{[24](16)(1/6(14)^2(26)[14][34] \dots \langle 3 \text{ terms} \rangle \dots -1/6(36)(14)[13][34](12))}{(12)[34](56)(1|2+4|3)^2\langle 2|1+3|4 \rangle} + \\
& \frac{1/8(36)[24](6|1+5|3)[23]^2(24)}{[13][34](56)(1|2+4|3)^2\langle 3|2+4|3 \rangle} + \\
& \frac{23/8(36)[24][23]^2(24)(16)}{[34](56)(1|2+4|3)^2\langle 3|2+4|3 \rangle} + \\
& \frac{(16)(-7/12(14)[13][23](26)(12)[12] \dots \langle 9 \text{ terms} \rangle \dots -145/72(14)[24][13][23](26)(24))}{(12)[13](24)[34](56)(1|2+4|3)^2} + \\
& \frac{[35](14)^2(1/8[24](24)[14][35] \dots \langle 4 \text{ terms} \rangle \dots +1/8[45][13](34)[34])}{(12)[13](24)[34][56](1|2+4|3)^2} + \\
& \frac{-1/8(14)^3[45]^2[13]}{\langle 12 \rangle (24)[34][56](1|2+4|3)^2} + \\
& \frac{1/8(14)(36)(26)[23]^2}{\langle 24 \rangle [34](56)(1|2+4|3)^2} + \\
& \frac{-3/4[24](36)^2(24)[23]^2}{[34](56)(1|2+4|3)\langle 3|5+6|3 \rangle^2} + \\
& \frac{7/8(46)[35](14)^2[24][14]^2(24)^2[34] \dots \langle 57 \text{ terms} \rangle \dots -3/8(23)[35][24][23]^2(26)(24)^2(12)[12]}{(12)[13](24)[34](56)[56](1|2+4|3)(2|1+4|3)\langle 3|5+6|3 \rangle} + \\
& \frac{-27/8[35][23](24)(26)(12)^2[12]^2 \dots \langle 20 \text{ terms} \rangle \dots -1/2(46)[35][24]^2(24)^3[34]}{(12)(24)\langle 56 \rangle [13][34][56](1|2+4|3)\langle 2|1+4|3 \rangle} + \\
& \frac{(46)(-1/8(14)(46)(34)[34]^2 \dots \langle 5 \text{ terms} \rangle \dots -3/8(14)[24][23](26)(24))}{(12)(24)[34](56)(1|2+4|3)\langle 4|1+2|3 \rangle} + \\
& \frac{(14)[35](1/2(14)[45][13](34)-1/2(14)[35][14](34)+1/8[24](24)(34)[35]+3/8[24](24)^2[25])}{(12)(24)[34][56](1|2+4|3)\langle 4|1+2|3 \rangle} + \\
& \frac{5/12[45](13)[14][23](26)}{[34](1|2+4|3)\langle 2|1+3|4 \rangle^2} + \\
& \frac{77/36(23)[45]^2(s_{14}-s_{23})[23]}{[34][56](1|2+4|3)\langle 2|1+3|4 \rangle^2} + \\
& \frac{-3/4(6|1+5|3)(36)[12][23]}{[13][34](56)(1|2+4|3)\langle 3|2+4|3 \rangle} + \\
& \frac{-35/8(36)(6|1+5|2)[23]}{[34](56)(1|2+4|3)\langle 3|2+4|3 \rangle} + \\
& \frac{3/4(4|2+3|4)[13](36)^2[23]}{[34](56)(2|1+4|3)\langle 3|5+6|3 \rangle^2} + \\
& \frac{9/8(3|2+4|3)(26)^2(s_{13}-s_{24})[23]}{(12)[34](56)(2|1+4|3)^2\langle 3|5+6|3 \rangle} + \\
& \frac{-9/8(23)(3|2+4|3)(s_{13}-s_{24})[35]^2}{(12)[34][56](2|1+4|3)^2\langle 3|5+6|3 \rangle} + \\
& \frac{1/4(46)^2[24][13][23](34)(4|5+6|4)}{[34](56)(4|1+2|3)^2((2|3|5+6|4|2)-(3|1|5+6|4|3))} + \\
& \frac{[45][14](-5/12(23)[25]+1/12(13)[15])}{[34][56](2|1+3|4)^2} + \\
& \frac{(23)(26)(-3/8(23)(46)[24][13]-5/8(23)[13](36)[23]-1/4[24](26)[12](24)+1/8(12)(26)[12]^2)}{(12)(24)[34](56)(2|3+4|1)\langle 2|1+3|4 \rangle} + \\
& \frac{-1/4(23)^2[45][15][23]}{(12)[34][56](2|3+4|1)\langle 2|1+3|4 \rangle} + \\
& \frac{(26)(11/8[13](36)(34)+11/8(46)[14](34)-3/8(23)(46)[12]+7/8(36)[12](24))}{(12)(24)[34](56)(2|3+4|1)} + \\
& \frac{-1/2(23)[15][25]}{(12)[34][56](2|3+4|1)} + \\
& \frac{3/16(3|2+4|1)[35](14)[24](s_{14}-s_{23})(16)}{\Delta_{13|24|56}(1|2+4|3)^2\langle 2|1+3|4 \rangle} + \\
& \frac{(s_{14}-s_{23})(s_{124}-s_{234})(-11/48(14)[14][25](16) \dots \langle 4 \text{ terms} \rangle \dots -13/48(14)[45](36)[23])}{\Delta_{13|24|56}(1|2+4|3)^2\langle 2|1+3|4 \rangle} + \\
& \frac{1/24(3|2+4|1)[35](14)[24](s_{124}-s_{234})(16)}{\Delta_{13|24|56}(1|2+4|3)^2\langle 2|1+3|4 \rangle} + \\
& \frac{1/8(14)^2[24](26)(46)}{(12)(24)\langle 56 \rangle (1|2+4|3)^2} + \\
& \frac{(14)[25](s_{124}-s_{234})(-13/48(36)[23]-7/48[12](16))}{\Delta_{13|24|56}(1|2+4|3)^2} + \\
& \frac{5/48(6|1+3|5)(s_{123}-s_{134})(13)[14](s_{14}-s_{23})}{\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle^2} + \\
& \frac{-1/48(23)(6|1+3|5)[24](s_{123}-s_{134})(s_{14}-s_{23})}{\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle^2} + \\
& \frac{-5/48[45](13)(s_{123}-s_{134})[14](26)(4|1+3|2)}{\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle^2} + \\
& \frac{-1/16[35](13)[14][25](24)(s_{15}+s_{35}+s_{16}+s_{36})[12]}{[13][56]\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{7/48[35](13)(26)[12]^2(s_{14}-s_{23})}{[13]\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{-19/48(6|1+3|5)[12](s_{14}-s_{23})(s_{15}+s_{35}+s_{16}+s_{36})}{[13]\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{(6|1+3|5)[12](s_{15}+s_{35}+s_{16}+s_{36})(-5/16(14)[14]-7/12(34)[34])}{[13]\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{1/48(46)[35](13)[14](s_{15}+s_{35}+s_{16}+s_{36})[12]}{[13]\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{-1/16(23)(46)^2(s_{25}+s_{45}+s_{26}+s_{46})[24](3|2+4|3)}{(24)(56)\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{-1/48(46)[24][13][45](34)^2(12)}{(24)\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{5/16(46)(s_{25}+s_{45}+s_{26}+s_{46})[45](3|2+4|3)(34)}{(24)\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{(34)(46)(s_{25}+s_{45}+s_{26}+s_{46})(1/8(23)[24][35]-1/3(14)[45][14]-5/16(12)[14][25])}{(24)\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{(46)(s_{13}-s_{24})(1/16[13][24](13)(36) \dots \langle 3 \text{ terms} \rangle \dots +1/16(36)(13)[12][34])}{(56)\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{[45](s_{13}-s_{24})(-1/16[24](34)^2[35]-1/16[24](24)(34)[25]+1/16(14)(13)[12][15])}{[56]\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{1/16(23)[35](13)[25](s_{13}-s_{24})[12]}{[56]\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{1/2(14)^2(36)[14]^2[25] \dots \langle 53 \text{ terms} \rangle \dots +11/8(23)(13)[25][23](26)[12]}{\Delta_{13|24|56}(1|2+4|3)\langle 2|1+3|4 \rangle} + \\
& \frac{-7/48(46)(13)[12]^2[35]}{[13]\Delta_{13|24|56}(1|2+4|3)} + \\
& \frac{1/48(14)(6|2+4|1)(34)[25]}{(24)\Delta_{13|24|56}(1|2+4|3)} + \\
& \frac{(26)(-11/8(23)(46)[14](34)+3/8(23)^2(46)[12]+13/8(36)(24)[14](34)-1/2(23)(36)[12](24))}{(12)(24)(56)(2|3+4|1)\langle 2|1+3|4 \rangle} + \\
& \frac{(23)[15](1/2(23)[25]-1/4[45](34))}{(12)[56](2|3+4|1)\langle 2|1+3|4 \rangle} + \\
& \frac{-7/48(26)(13)[12]^2[15]}{[13]\Delta_{13|24|56}(2|1+3|4)}
\end{aligned}$$