

$$\begin{aligned}
& \frac{1/4[12](13)^2(23)(23)(24)[45](46)}{(12)^2(2|1+3|2)^2(4|5+6|4)^2} + \\
& \frac{3/4[12](13)(23)[25](46)}{(12)(2|1+3|2)^2(4|5+6|4)} + \\
& \frac{-893/54[12]^2(13)(25)(2|1+3|5)}{[23][56](2|1+3|2)^2(2|1+3|4)} + \\
& \frac{(13)[13](231/8(24)^2[35](46)[24]^3 \dots \langle \text{97 terms} \rangle \dots + 5/2(46)(23)(34)[34][45][23]^2)}{(12)(23)[34](56)[56](2|1+3|2)(2|5+6|2)(2|1+4|3)} + \\
& \frac{(13)[12](-3487/72[24](46)(23)(13)[34][35][13] \dots \langle \text{104 terms} \rangle \dots + 733/72[24]^2(46)(24)^2[34][45])}{(12)(23)[34](56)[56](2|1+3|2)(2|5+6|2)(2|1+3|4)} + \\
& \frac{[45](13)(46)[12](1/2(12)(34)+3/4(13)(24))}{(12)^2(2|1+3|2)(4|5+6|4)^2} + \\
& \frac{3/2[24]^3(12)^2(46)(23)^2(24)[25][13]^2 \dots \langle \text{245 terms} \rangle \dots + 23/4[24]^2(26)(23)^2(13)(24)^2[45][13][23]^2}{(12)^2[13](23)[23][34](56)[56](2|1+3|2)(2|1+3|4)(4|5+6|4)} + \\
& \frac{-223/72[14]^5(12)^2(46)(14)^3[35] \dots \langle \text{199 terms} \rangle \dots + 17/8[24](23)^2(24)^3[34]^2[45](36)[23]^2}{(12)^2[13](23)[23][34](56)[56](2|1+3|2)(2|1+4|3)(2|1+3|4)} + \\
& \frac{241/72[24]^2(12)(24)(34)[35][13](36) \dots \langle \text{133 terms} \rangle \dots - 53/2424^2(34)[34][45](36)[23]}{(12)^2[13](23)[23][34](56)[56](2|1+3|2)} + \\
& \frac{-3/2[12](24)[25]^2(2|1+4|2)}{[23][56](2|5+6|2)^2(2|1+4|3)} + \\
& \frac{3/2[12](13)[13](23)[25]^2}{[23][56](2|5+6|2)^2(2|1+3|4)} + \\
& \frac{2(26)(23)(13)^2[45][13]^3[23]^2 \dots \langle \text{75 terms} \rangle \dots - 791/72[14](46)(13)(34)[34]^2[45](14)[13]^2}{(12)[13][23][34](56)[56](2|5+6|2)(2|1+4|3)(2|1+3|4)} + \\
& \frac{[45](-4193/72[24][14](23)(13)(24)[35] \dots \langle \text{27 terms} \rangle \dots - 1/4(24)[35][24]^2(23)^2)}{(12)[34][56](2|5+6|2)(2|1+3|4)^2} + \\
& \frac{(3|1+2|4)(47/4(34)^2(36)[34][45] \dots \langle \text{13 terms} \rangle \dots - 47/12[24](23)(34)[35](36))}{(23)(1|2+3|4)(2|1+3|4)(4|5+6|4)^2} + \\
& \frac{-1/2[24]^3(46)^2 s_{123}}{[23][34](56)(1|2+3|4)(4|2+3|4)(4|5+6|4)} + \\
& \frac{[45](-4321/54[24][14](23)(13)(24)[35] \dots \langle \text{31 terms} \rangle \dots + 15/2[24][35](23)^3[23])}{(12)[34][56](2|1+3|4)^2(4|5+6|4)} + \\
& \frac{-45/4[24]^3(46)(23)(13)(24)[35] \dots \langle \text{51 terms} \rangle \dots + 11/4[14][24]^2(12)(34)(14)[35](36)}{(12)(23)[23][34](56)[56](1|2+3|4)(4|5+6|4)} + \\
& \frac{-7/6[12](23)(46)^2(4|2+3|4)}{(12)^2[13](56)(4|2+3|1)(4|5+6|4)} + \\
& \frac{-29/12[12]^2(46)^2(4|2+3|4)}{(12)[13][23](56)(4|2+3|1)(4|5+6|4)} + \\
& \frac{[12]^2(46)^2(1|14|(34)+1/2[12](23))}{[13](23)[23](56)(4|2+3|1)(4|5+6|4)} + \\
& \frac{1/2[12]^2(13)(16)(23)(1|2+3|5)}{(12)(56)[56](1|2+3|1)(1|5+6|1)(1|2+3|4)} + \\
& \frac{1/2[12](13)^2(14)[45](6|2+3|1)}{(12)(56)[56](1|2+3|1)(1|5+6|1)(1|2+3|4)} + \\
& \frac{(13)(3|12|(13)^2[13](24)[45](46) \dots \langle \text{9 terms} \rangle \dots - 3/2[12]^2(13)^2(24)(26)[35])}{(12)^2(23)[23](56)[56](1|2+3|1)(1|5+6|1)} + \\
& \frac{1/2[12](13)[15](34)(46)}{(12)(56)[56](1|2+3|1)(4|2+3|1)} + \\
& \frac{1(12)^2[12]^2(23)[25](46) \dots \langle \text{4 terms} \rangle \dots - 2(13)^2[13]^2(14)[15](36)}{(12)^2[13](23)[23](56)[56](1|2+3|1)} + \\
& \frac{1/2[13](14)^2[24]^2(36)[45] \dots \langle \text{7 terms} \rangle \dots - 3(13)^2[13][23][24][45](46)}{(12)[23][34](56)[56](1|5+6|1)(1|2+3|4)} + \\
& \frac{-1/2(12)^2[13]^2[24][25](34)(36) \dots \langle \text{51 terms} \rangle \dots + 1/2[12]^2(13)^2(24)(26)[34][35]}{(12)^2[13](23)[23][34](56)[56](1|5+6|1)} + \\
& \frac{-5/24(16)[24](26)s_{123}(s_{124}-s_{234})(s_{14}-s_{23})^2}{(56)\Delta_{13|24|56}(1|2+4|3)^2(2|1+3|4)^2} + \\
& \frac{5/24(16)[24](46)s_{123}(s_{14}-s_{23})(s_{124}-s_{234})}{(56)\Delta_{13|24|56}(1|2+4|3)^2(2|1+3|4)} + \\
& \frac{-7/24[14]s_{123}(6|1+3|5)(s_{123}-s_{134})(s_{14}-s_{23})}{[13]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)^2} + \\
& \frac{[45](-2213/18[24]12(23)[35] \dots \langle \text{27 terms} \rangle \dots - 10925/324[24](23)(13)[35][13])}{[34][56](1|2+4|3)(2|1+3|4)^2} + \\
& \frac{11/12[24](26)(36)s_{123}(s_{123}-s_{134})(s_{14}-s_{23})}{(56)\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)^2} + \\
& \frac{7/12[45]s_{123}(3|1+6|5)(s_{123}-s_{134})(s_{14}-s_{23})}{[56]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)^2} + \\
& \frac{-1/24(23)[24]s_{123}(6|1+3|5)(s_{14}-s_{23})}{\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)^2} + \\
& \frac{1/8(23)[24]s_{123}(6|1+3|5)(s_{123}-s_{134})}{\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)^2} + \\
& \frac{s_{123}(-2[24](26)(23)[35][23] \dots \langle \text{24 terms} \rangle \dots - 109/72(24)(26)[35][24]^2)}{(12)[13][34](56)[56](1|2+4|3)(2|1+3|4)} + \\
& \frac{-3/8[15][24](34)[35]s_{123}(s_{24}-s_{56})}{[13][56]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{7/12[12]s_{123}(6|1+3|5)(s_{14}-s_{23})}{[13]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{1/24[12]s_{123}(3|2+4|3)(6|1+3|5)}{[13]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{-1/4[12]s_{123}(6|1+3|5)(s_{24}-s_{56})}{[13]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{-3/8[12][35](36)s_{123}(s_{24}-s_{56})}{[13]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{3/2[24](36)(46)s_{123}(s_{14}-s_{23})}{(56)\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{1/3[24](36)(46)s_{123}s_{134}}{(56)\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{13/12[24](36)(46)s_{123}(s_{13}-s_{24})}{(56)\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{3/8[23](36)^2s_{123}(s_{13}-s_{24})}{(56)\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{-1/12[23](34)[45]s_{123}(3|1+6|5)}{[56]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{-17/24[24](34)[35]s_{123}(3|1+6|5)}{[56]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{s_{123}[45](13/12[24][24][25](34)-7/6[12](13)(14)[15])}{[56]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{-13/12[12](13)(23)[25][35]s_{123}}{[56]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{[25]s_{123}(s_{13}-s_{24})(-11/24(23)[25]-5/8(34)[45])}{[56]\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{s_{123}(-11/6(14)[14][25](36) \dots \langle \text{11 terms} \rangle \dots - 53/24[24](34)[35](36))}{\Delta_{13|24|56}(1|2+4|3)(2|1+3|4)} + \\
& \frac{(14)[35](7/4[13]^2(14)(24)(36) \dots \langle \text{3 terms} \rangle \dots - 7/4(13)[13]^2[24](46))}{(12)[13][34](56)[56](1|2+4|3)(4|1+2|3)} + \\
& \frac{-1/2(14)[24][35](46)s_{123}}{(12)[34](56)[56](1|2+4|3)(4|1+2|3)} + \\
& \frac{s_{123}(-53/6[35](14)(36)[34] \dots \langle \text{9 terms} \rangle \dots + 2743/72[35](36)(12)[23])}{(12)^2[13][34](56)[56](1|2+4|3)} + \\
& \frac{1/4[24](12)(14)[35][13](36) \dots \langle \text{32 terms} \rangle \dots - 158/9[24](26)(12)(24)[25][23]}{(12)^2[13][34](56)[56](1|2+4|3)} + \\
& \frac{-9/4(23)(24)[24][35]^2s_{123}}{(12)[23][56](2|1+4|3)^2(2|1+3|4)} + \\
& \frac{9/4(24)[24](26)^2s_{123}}{(12)(56)(2|1+4|3)^2(2|1+3|4)} + \\
& \frac{1/2(12)[13]^2(23)^2(24)^2[24]^3(26)[35] \dots \langle \text{90 terms} \rangle \dots - 3/2(12)^2[12][14]^2(24)^2(34)[34]^2[45](46)}{(12)^2[13](23)[23][34](56)[56](2|3+4|1)(2|1+4|3)(2|1+3|4)} + \\
& \frac{515/72[24]^2(46)(23)^2(24)^2[34]^2[35] \dots \langle \text{42 terms} \rangle \dots + 136/9(26)(12)(23)^2(13)[45][13]^2[23]^2}{(12)^2[13](23)[23][34](56)[56](2|1+4|3)(2|1+3|4)} + \\
& \frac{-7/4(14)(24)[24](26)(46)}{(12)^2(56)(2|1+4|3)(4|1+2|3)} + \\
& \frac{[35]^2(34)(1/4(24)[24]+5/2(14)[14])}{(12)[34][56](2|1+4|3)(4|1+2|3)} + \\
& \frac{3/4(24)[24](46)^2}{(12)(56)(2|1+4|3)(4|1+2|3)} + \\
& \frac{569/36[24]12(46)(23)(24)[34][35] \dots \langle \text{87 terms} \rangle \dots + 79/3(46)(23)^2(13)[34][35][13][23]}{(12)^2[13](23)[23][34](56)[56](2|1+4|3)} + \\
& \frac{5/12[24](26)(36)s_{123}(3|2+4|1)}{(56)\Delta_{13|24|56}(2|1+3|4)^2} + \\
& \frac{1939/72[24]^3(12)(46)(23)[35] \dots \langle \text{63 terms} \rangle \dots + 1607/24[24]^2(46)(13)(24)[34][45]}{(12)[23][34](56)[56](1|2+3|4)(2|1+3|4)} + \\
& \frac{3665/36[14](46)(23)(13)^2[34][35][13] \dots \langle \text{65 terms} \rangle \dots - 5/8[14](24)(34)[34]^2(14)[45](36)}{(12)^2[13](23)[23][34](56)[56](2|1+3|4)} + \\
& \frac{-9071/216[24](46)(23)(13)^2[34][35] \dots \langle \text{49 terms} \rangle \dots - 68/9[24]^2(12)(24)(14)[45](36)}{(12)^2(23)[23][34](56)[56](1|2+3|4)} + \\
& \frac{[12](46)(7/6[12](14)(26)+7/6[13](14)(36)-7/6(23)[23](46))}{(12)^2[13](23)(56)(4|2+3|1)} + \\
& \frac{-23/12[12]^2(46)^2}{(12)[13][23](56)(4|2+3|1)} + \\
& \frac{(24)(46)[23](7/4[24](26)-1/2[34](36))}{(12)^2[13][34](56)(4|1+2|3)} + \\
& \frac{1/2(14)(34)[35][45]}{(12)^2[34][56](4|1+2|3)} + \\
& \frac{(46)^2(-1[13][24]+5/2[12][34])}{(12)[13][34](56)(4|1+2|3)} + \\
& \frac{-731/36[24][14](12)(46)(34)[35] \dots \langle \text{34 terms} \rangle \dots + 641/72[24][14](46)(24)(14)[45]}{(12)^2[13](23)[23][34](56)[56]}
\end{aligned}$$