$$\frac{3\langle16\rangle[13]\langle6|1+5|2][24]}{[34]^2\langle56\rangle s_{234}\langle1|2+4|3]}+$$

$$\frac{3\langle1|3+4|2][24][35]\langle15\rangle}{[34]^2\langle56\rangle s_{234}\langle1|2+4|3]}+$$

$$\frac{-9\langle4|16\rangle\langle6|1+5|2][12]}{[34]\langle56\rangle s_{234}\langle1|2+4|3]}+$$

$$\frac{-9\langle4|25\rangle[1|3+4|2][15]}{[34]\langle56\rangle s_{234}\langle1|2+4|3]}+$$

$$\frac{21/4\langle24\rangle\langle2|3+4|1][25]^2[12]}{[13]\langle56\rangle\langle2|5+6|2]^2\langle2|1+4|3]}+$$

$$\frac{-7\langle26\rangle^2[13]\langle4|1+3|2][24]}{[34]\langle56\rangle\langle2|5+6|2]\langle2|1+4|3]^2}+$$

$$\frac{\langle26\rangle[12](7\langle46\rangle[24]-35\langle4|16\rangle[12])}{[34]\langle56\rangle\langle2|5+6|2]\langle2|1+4|3]}+$$

$$\frac{[12]\langle25\rangle(19/2\langle23\rangle[35]-7/4[15]\langle12\rangle)}{[34]\langle56\rangle\langle2|5+6|2]\langle2|1+4|3]}+$$

$$\frac{\langle26\rangle[12](35/4[13]\langle24\rangle[36]\ldots\langle3\text{ terms}\rangle\ldots+7/4\langle16\rangle[14][12])}{[13][34]\langle56\rangle\langle2|5+6|2]\langle2|1+3|4]}+$$

$$\frac{[25]\langle23\rangle(7[25]\langle14\rangle-19/2[45]\langle12\rangle)}{[34]\langle56\rangle\langle2|5+6|2]\langle2|1+3|4]}+$$

$$\frac{-7\langle4|1+2|3]\langle26\rangle[13]\langle36\rangle[24]}{[34]\langle56\rangle\langle2|1+4|3]^2\langle3|5+6|3]}+$$

$$\frac{-7\langle26\rangle[13]\langle46\rangle[24]}{[34]\langle56\rangle\langle2|1+4|3]^2}+$$

$$\frac{21\langle4|36\rangle^2[24]\langle4|1+2|3]^2}{\langle56\rangle\langle1|2+4|3]\langle2|1+4|3]\langle3|5+6|3]^2}+$$

$$\frac{\langle34\rangle[13]\langle24\rangle[36](6\langle26\rangle[23]-21\langle2|46\rangle[34]+7\langle4|16\rangle[13])}{[34]\langle56\rangle\langle2|1+4|3]\langle3|2+4|3]\langle3|5+6|3]}+$$

$$\frac{-7/4\langle34\rangle^2[45][35][13][24]}{[34]\langle56\rangle\langle2|1+4|3]\langle3|2+4|3]\langle3|5+6|3]}+$$

$$\frac{6\langle26\rangle[13]\langle36\rangle[23][24]}{[34]^2\langle56\rangle\langle2|1+4|3]\langle3|2+4|3]}+$$

$$\frac{[24]\langle13\rangle[23]\langle36\rangle(-35/4\langle4|46\rangle(12)+17/4\langle2|26\rangle(14))}{[34]\langle56\rangle\langle1|2+4|3]\langle2|1+4|3]\langle3|2+4|3]}+$$

$$\frac{7/4\langle34\rangle\langle24\rangle[45][35]\langle23\rangle[24]}{[34]\langle56\rangle\langle1|2+4|3]\langle2|1+4|3]\langle3|2+4|3]}+$$

$$\frac{-17\langle4|14\rangle[24][35]\langle15\rangle}{[34]\langle56\rangle\langle1|2+4|3]\langle2|1+4|3]}+$$

$$\frac{7/2\langle25\rangle[45]\langle4|1+2|3]}{[34]\langle56\rangle\langle1|2+4|3]\langle2|1+4|3]}+$$

$$\frac{-7\langle25\rangle[14]\langle26\rangle}{[34]\langle2|1+4|3]\langle2|1+3|4]}+$$

$$\frac{[24]\langle26\rangle(27/4[13]\langle36\rangle+5/2\langle2|46\rangle[14])}{[34]\langle56\rangle\langle2|1+4|3]\langle2|1+3|4]}+$$

$$\frac{31/4\langle25\rangle\langle23\rangle[14][35]}{[34]\langle56\rangle\langle2|1+4|3]\langle2|1+3|4]}+$$

$$\frac{-7/2\langle23\rangle[13]\langle45\rangle[25]}{[34]\langle56\rangle\langle2|1+4|3]\langle2|1+3|4]}+$$

$$\frac{35/4\langle26\rangle\langle36\rangle[12]}{\langle56\rangle\langle2|1+4|3]\langle2|1+3|4]}+$$

$$\frac{-11/4\langle34\rangle\langle6|1+5|3]\langle36\rangle[23][24]}{[34]\langle56\rangle\langle1|2+4|3]\langle3|2+4|3]\langle3|5+6|3]}+$$

$$\frac{7/4\langle34\rangle[24][35]^2[12]}{[13][34]\langle56\rangle\langle1|2+4|3]\langle3|5+6|3]}+$$

$$\frac{1/4\langle34\rangle\langle23\rangle[35][23][15][24]^2}{[34]^2\langle56\rangle\langle1|5+6|1]\langle3|2+4|3]^2}+$$

$$\frac{7/4\langle34\rangle\langle6|1+5|3]\langle36\rangle[23][24]}{[34]\langle56\rangle\langle1|2+4|3]\langle3|2+4|3]^2}+$$

$$\frac{1/4\langle34\rangle\langle36\rangle[23][15][24]}{[34]\langle1|5+6|1]\langle3|2+4|3]^2}+$$

$$\frac{\langle24\rangle^2\langle34\rangle[13]\langle16\rangle(1/4\langle26\rangle[23]+3/4\langle4|16\rangle[13])}{[34]^2\langle56\rangle\langle1|5+6|1]\langle1|2+4|3]\langle3|2+4|3]}+$$

$$\frac{-3/4\langle34\rangle[35]^2[23][14][24]}{[13][34]^2\langle56\rangle\langle1|2+4|3]\langle3|2+4|3]}+$$

$$\frac{3\langle26\rangle\langle36\rangle[24][23]^2}{[34]^2\langle56\rangle\langle1|2+4|3]\langle3|2+4|3]}+$$

$$\frac{\langle24\rangle\langle34\rangle[13]\langle16\rangle(1/4\langle36\rangle[23]+1/2(16)[12])}{[34]\langle56\rangle\langle1|5+6|1]\langle1|2+4|3]\langle3|2+4|3]}+$$

$$\frac{[23][35](1\langle34\rangle[45][12]-9/4\langle25\rangle[14]\langle34\rangle+5/4\langle25\rangle\langle23\rangle[12])}{[13][34]\langle56\rangle\langle1|2+4|3]\langle3|2+4|3]}+$$

$$\frac{\langle36\rangle[23](-9/4\langle36\rangle[23]-39/4\langle46\rangle[24])}{[34]\langle56\rangle\langle1|2+4|3]\langle3|2+4|3]}+$$

$$\frac{-3/16[35]\langle23\rangle[12]\langle6|1+5|4]}{[13][34]^2\langle56\rangle[56]\langle1|2+4|3]}+$$

$$\frac{[35](3/2\langle25\rangle[13]\langle24\rangle+3/16[45]\langle23\rangle[12])}{[13][34]^2[56]\langle1|2+4|3]}+$$

$$\frac{-105/16\langle6|1+5|2][24][35]}{[34]^2\langle56\rangle[56]\langle1|2+4|3]}+$$

$$\frac{-23/16\langle25\rangle[45]\langle23\rangle}{[34]^2[56]\langle1|2+4|3]}+$$

$$\frac{\langle14\rangle[35](-3/16[25]\langle14\rangle+7/4[45]\langle12\rangle)}{[13][34]\langle56\rangle\langle2|1+3|4]}+$$

$$\frac{-27\langle4|45\rangle\langle6|2+5|1][24]}{[34]^2\langle56\rangle[56]\langle2|1+3|4]}+$$

$$\frac{\langle45\rangle(-7/4[45][12]-41/16[25][14])}{[34]^2[56]\langle2|1+3|4]}+$$

$$\frac{\langle16\rangle(-3/8[13][24]\langle36\rangle+3/8\langle46\rangle[14][24]-3/4\langle26\rangle[24][12]+3/8\langle16\rangle[14][12])}{[34]\langle56\rangle\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{3/4\langle26\rangle\langle36\rangle[24][23]}{[34]\langle56\rangle\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{3/4\langle25\rangle\langle23\rangle[24][35]}{[34][56]\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{[25]\langle45\rangle(-3/8[13]\langle13\rangle+3/8\langle14\rangle[14])}{[34]\langle56\rangle\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{7/8\langle25\rangle[35][12]}{[13][34][56]\langle1|2+4|3]}+$$

$$\frac{3/16\langle6|2+5|1][45][12]}{[13][34]\langle56\rangle[56]\langle2|1+3|4]}+$$

$$\frac{\langle16\rangle[12](3/8[13]\langle36\rangle+3/2\langle46\rangle[14]+3/8\langle26\rangle[12])}{[13]\langle56\rangle\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{3/16\langle26\rangle\langle6|1+5|2][12]}{[13][56]\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{3/64[25](s_{124}-s_{234})(s_{15}+s_{16}+s_{35}+s_{36})(s_{123}-s_{134})[15]}{[13][56]\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+4|3]}+$$

$$\frac{[35](-3/16\langle34\rangle[45][12]-3/16[25][14]\langle34\rangle+3/16\langle25\rangle[23][12])}{[13][56]\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{[25]\langle45\rangle(15/16\langle34\rangle[13]-3/16\langle24\rangle[12])}{[13][56]\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{3/64(s_{124}-s_{234})\langle6|1+3|2](s_{123}-s_{134})[15]}{[13]\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{-3/64(s_{124}-s_{234})\langle6|1+3|5](s_{24}-s_{56})[12]}{[13]\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+4|3]}+$$

$$\frac{-3/64\langle6|1+3|5](s_{123}-s_{134})(s_{24}-s_{56})[12]}{[13]\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{-3/8(s_{24}-s_{56})\langle13\rangle[35]\langle46\rangle[12][14]}{[13]\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{9/32(s_{13}-s_{24})(s_{124}-s_{234})\langle46\rangle\langle36\rangle[24]}{\langle56\rangle\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+4|3]}+$$

$$\frac{9/32(s_{13}-s_{24})\langle46\rangle\langle36\rangle(s_{123}-s_{134})[24]}{\langle56\rangle\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{3/8(s_{13}-s_{24})\langle46\rangle\langle36\rangle\langle3|1+4|2][24]}{\langle56\rangle\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{(s_{15}+s_{16}+s_{35}+s_{36})(s_{124}-s_{234})[25](3/16\langle34\rangle[45]+3/2\langle32\rangle[15])}{[56]\Delta_{13|24|56}\langle1|2+4|3]}+$$

$$\frac{3/32[25]\langle13\rangle(s_{15}+s_{16}+s_{35}+s_{36})(s_{123}-s_{134})[15]}{[56]\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{-39/64[25]\langle36\rangle(s_{123}-s_{134})(s_{124}-s_{234})}{\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{(s_{124}-s_{234})(-3/32\langle34\rangle[14][45][12]\ldots\langle9\text{ terms}\rangle\ldots-3/32\langle34\rangle[45]\langle46\rangle[24])}{\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{(s_{123}-s_{134})(-3/16[25]\langle14\rangle[14]\langle36\rangle\ldots\langle10\text{ terms}\rangle\ldots-3/32[45]\langle46\rangle[24])}{\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{[12](3/4\langle46\rangle\langle13\rangle^2[35][14]\ldots\langle5\text{ terms}\rangle\ldots-3/8[25]\langle24\rangle\langle36\rangle[24][12])}{\Delta_{13|24|56}\langle1|2+4|3]\langle2|1+3|4]}+$$

$$\frac{3/8[25]\langle36\rangle[34]\langle23\rangle}{\Delta_{13|24|56}\langle1|2+4|3]}+$$

$$\frac{-3/8\langle34\rangle\langle36\rangle[45][12]}{\Delta_{13|24|56}\langle2|1+3|4]}$$