$$\frac{s_{12}m_t\langle 2|\mathbf{3}|1]\left(\mathrm{tr}(1+2|\mathbf{3})+4m_t^2\right)\left(-1/16[\mathbf{24}]\langle\mathbf{32}\rangle-1/32[\mathbf{14}]\langle\mathbf{31}\rangle\right)}{\Delta^2_{12|\mathbf{3}|\mathbf{45}}\left(s_{\mathbf{123}}-m_t^2\right)}+$$

$$\frac{s_{12}\langle 2|\mathbf{3}|1]\left(\mathrm{tr}(1+2|\mathbf{3})+4m_t^2\right)\left(1/32[2|\mathbf{3}|\mathbf{4}\rangle\langle\mathbf{32}\rangle+1/32\langle 1|\mathbf{3}|1]\langle\mathbf{34}\rangle\right)}{\Delta^2_{12|\mathbf{3}|\mathbf{45}}\left(s_{\mathbf{123}}-m_t^2\right)}+$$

$$\frac{\langle\mathbf{32}\rangle[\mathbf{24}]\langle 2|\mathbf{5}|1]m_t\left(3s_{12}+3/2\mathrm{tr}(1+2|\mathbf{3}+\mathbf{4})\right)}{\Delta^2_{12|\mathbf{34}|\mathbf{5}}}+$$

$$\frac{\langle\mathbf{32}\rangle m_t\left(-4/3\langle 2|\mathbf{4}|1][\mathbf{24}]+4/3\langle 2|\mathbf{4}|2][\mathbf{14}]\right)}{\langle 12\rangle^2[12]^2\left(s_{\mathbf{123}}-m_t^2\right)}+$$

$$\frac{-4/3\langle 2|\mathbf{3}|1]m_t^2\langle\mathbf{34}\rangle}{\langle 12\rangle^2[12]^2\left(s_{\mathbf{123}}-m_t^2\right)}+$$

$$\frac{-1[12]\langle\mathbf{24}\rangle\langle\mathbf{32}\rangle m_t^2}{s_{\mathbf{34}}\Delta_{12|\mathbf{34}|\mathbf{5}}}+$$

$$\frac{1[12]\langle 2|\mathbf{3}|\mathbf{4}]\langle\mathbf{32}\rangle m_t}{s_{\mathbf{34}}\Delta_{12|\mathbf{34}|\mathbf{5}}}+$$

$$\frac{[12]\langle\mathbf{32}\rangle m_t\left(1/6\langle 2|\mathbf{3}|\mathbf{4}]-1/8\langle 12\rangle[\mathbf{14}]\right)}{\Delta_{12|\mathbf{3}|\mathbf{45}}\left(s_{\mathbf{123}}-m_t^2\right)}+$$

$$\frac{\left(1/6\langle\mathbf{34}\rangle\left(\langle 2|\mathbf{3}|1]\mathrm{tr}(1+2|\mathbf{3})+2\langle 2|\mathbf{3}|1]m_t^2\right)+1/24[12]\langle\mathbf{24}\rangle\langle\mathbf{3}|1+2|\mathbf{3}|2\rangle\right)}{\Delta_{12|\mathbf{3}|\mathbf{45}}\left(s_{\mathbf{123}}-m_t^2\right)}+$$

$$\frac{1\langle\mathbf{32}\rangle[\mathbf{14}]m_t}{\Delta_{12|\mathbf{34}|\mathbf{5}}}+$$

$$\frac{m_t\left(\mathrm{tr}(\mathbf{3}|\mathbf{4})\mathrm{tr}(1+2|\mathbf{3})-2m_t^2\mathrm{tr}(1+2|\mathbf{4})\right)\left(-1/96\langle 2|\mathbf{3}|2][\mathbf{14}]\langle\mathbf{32}\rangle\ldots\langle\text{7 terms}\rangle\ldots+1/12m_t^2[\mathbf{14}]\langle\mathbf{32}\rangle\right)}{\Delta_{12|\mathbf{3}|\mathbf{45}}\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{\left(\mathrm{tr}(\mathbf{3}|\mathbf{4})\mathrm{tr}(1+2|\mathbf{3})-2m_t^2\mathrm{tr}(1+2|\mathbf{4})\right)\left(1/96\langle\mathbf{24}\rangle\langle 2|\mathbf{3}|2]\langle\mathbf{3}|\mathbf{4}|1]\ldots\langle\text{4 terms}\rangle\ldots-1/96\langle 2|\mathbf{3}|1]\langle\mathbf{3}|\mathbf{4}|1]\langle\mathbf{14}\rangle\right)}{\Delta_{12|\mathbf{3}|\mathbf{45}}\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{-1/96\mathrm{tr}(\mathbf{3}|\mathbf{4})\langle\mathbf{34}\rangle\langle 2|\mathbf{3}|1]\left(\mathrm{tr}(1+2|\mathbf{3})\mathrm{tr}(1+2|\mathbf{4})-2s_{12}\mathrm{tr}(\mathbf{3}|\mathbf{4})\right)}{\Delta_{12|\mathbf{3}|\mathbf{45}}\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{1/48\langle 2|\mathbf{3}|\mathbf{4}]\langle 1|\mathbf{3}|1]\langle\mathbf{32}\rangle m_t\left(\mathrm{tr}(\mathbf{3}|\mathbf{4})\mathrm{tr}(1+2|\mathbf{3})-2m_t^2\mathrm{tr}(1+2|\mathbf{4})\right)}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{45}}\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{-1/48\langle\mathbf{24}\rangle\langle 2|\mathbf{3}|1][\mathbf{3}|\mathbf{4}|1\rangle m_t\left(\mathrm{tr}(\mathbf{3}|\mathbf{4})\mathrm{tr}(1+2|\mathbf{3})-2m_t^2\mathrm{tr}(1+2|\mathbf{4})\right)}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{45}}\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{\langle 2|\mathbf{3}|\mathbf{4}|2\rangle m_t\left(\mathrm{tr}(1+2|\mathbf{3})\mathrm{tr}(1+2|\mathbf{4})-2s_{12}\mathrm{tr}(\mathbf{3}|\mathbf{4})\right)\left(1/24\langle\mathbf{24}\rangle[\mathbf{32}]+1/24[\mathbf{31}]\langle\mathbf{14}\rangle\right)}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{45}}\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{\left(\mathrm{tr}(\mathbf{3}|\mathbf{4})\mathrm{tr}(1+2|\mathbf{3})-2m_t^2\mathrm{tr}(1+2|\mathbf{4})\right)\left(-1/48\langle\mathbf{34}\rangle\langle 2|\mathbf{3}|2]\langle 2|\mathbf{3}|\mathbf{4}\rangle 2\rangle+1/48\langle\mathbf{24}\rangle\mathrm{tr}(\mathbf{3}|\mathbf{4})\langle 1|\mathbf{3}|1]\langle\mathbf{32}\rangle\right)}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{45}}\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{[\mathbf{34}]\langle 2|\mathbf{3}|\mathbf{4}|2\rangle\left(\mathrm{tr}(\mathbf{3}|\mathbf{4})\mathrm{tr}(1+2|\mathbf{3})-2m_t^2\mathrm{tr}(1+2|\mathbf{4})\right)\left(-1/48\langle 2|\mathbf{3}|2]-1/48\langle 1|\mathbf{3}|1]\right)}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{45}}\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{\langle\mathbf{32}\rangle m_t\left(-1/6\langle 2|\mathbf{3}|\mathbf{4}|2\rangle[\mathbf{24}]\ldots\langle\text{4 terms}\rangle\ldots-1/12\mathrm{tr}(\mathbf{3}|\mathbf{4})\langle 12\rangle[\mathbf{14}]\right)}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{\left(-1/12\langle\mathbf{24}\rangle\langle\mathbf{3}|\mathbf{4}|1]\langle 1|\mathbf{3}|\mathbf{4}|2\rangle-1/12\langle 2|\mathbf{3}|\mathbf{4}|2\rangle\langle\mathbf{3}|\mathbf{4}|1]\langle\mathbf{14}\rangle-1/6\langle\mathbf{34}\rangle\langle 2|\mathbf{3}|2]\langle 2|\mathbf{3}|\mathbf{4}|2\rangle\right)}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$(12345\to 12435)+$$

$$(12345\to\overline{21345})+$$

$$(12345\to\overline{21435})$$