$$\frac{m_t^2(5/3\langle 12\rangle\langle \mathbf{3}|\mathbf{4}|2]\langle \mathbf{14}\rangle\ldots\langle\{4\text{ terms}\}\rangle\ldots-5/6\text{tr}(\mathbf{3}|\mathbf{4})\langle \mathbf{14}\rangle\langle \mathbf{31}\rangle)}{\langle 1|\mathbf{3}|\mathbf{5}|1\rangle\langle 1|\mathbf{5}|2]}+$$

$$\frac{[\mathbf{24}]\langle 12\rangle m_t^2(5/6[\mathbf{3}|\mathbf{4}|1)-5/6[\mathbf{32}]\langle 12\rangle)}{\langle 1|\mathbf{3}|\mathbf{5}|1\rangle\langle 1|\mathbf{5}|2]}+$$

$$\frac{\langle \mathbf{31}\rangle m_t(-5/6[\mathbf{14}\rangle\langle 1|\mathbf{3}|\mathbf{4}|1\rangle\ldots\langle\{4\text{ terms}\}\rangle\ldots-5/6\langle 1|\mathbf{3}|\mathbf{4}]\text{tr}(\mathbf{3}|\mathbf{4})-5/6\langle 1|\mathbf{3}|\mathbf{4}]\langle 2|\mathbf{4}|2])}{\langle 1|\mathbf{3}|\mathbf{5}|1\rangle\langle 1|\mathbf{5}|2]}+$$

$$\frac{5/3\langle \mathbf{34}\rangle m_t^2}{\langle 1|\mathbf{5}|2]}+$$

$$\frac{m_t(5/6\langle \mathbf{32}\rangle[2\mathbf{4}]-5/6[\mathbf{14}\rangle\langle \mathbf{31}\rangle)}{\langle 1|\mathbf{5}|2]}+$$

$$\frac{m_t(\langle \mathbf{3}|\mathbf{@}(|1|2|\mathbf{3}+\mathbf{4}|\mathbf{4}|\mathbf{3}+\mathbf{4}|-|1|\mathbf{3}+\mathbf{4}|1|\mathbf{4}|\mathbf{3}+\mathbf{4}|+|1|\mathbf{3}+\mathbf{4}|\mathbf{3}+\mathbf{4}|\mathbf{4}|1+2|-|\mathbf{3}+\mathbf{4}|2|\mathbf{3}+\mathbf{4}|\mathbf{4}|1+2|)@|\mathbf{4}])(5/24\langle 1|\mathbf{3}|1]-5/24\langle 2|\mathbf{3}|2]+5/24\text{tr}(\mathbf{3}|\mathbf{4})+5/12m_t^2)}{\langle 1|\mathbf{5}|2]\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{m_t^2(5/12\langle 2\mathbf{4}\rangle\langle \mathbf{3}|\mathbf{4}|1]\langle 2|\mathbf{3}|2]\ldots\langle\{13\text{ terms}\}\rangle\ldots+5/6\langle 2\mathbf{4}\rangle\langle \mathbf{3}|\mathbf{4}|1]\text{tr}(\mathbf{3}|\mathbf{4}))}{\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{\langle \mathbf{32}\rangle m_t(5/24\text{tr}(\mathbf{3}|\mathbf{4})^2[\mathbf{14}]+5/8\text{tr}(\mathbf{3}|\mathbf{4})\langle 1|\mathbf{3}|1][\mathbf{14}]-5/24\text{tr}(\mathbf{3}|\mathbf{4})\langle 2|\mathbf{3}|2][\mathbf{14}]-5/12\langle 2|\mathbf{3}|\mathbf{4}][1|\mathbf{3}|\mathbf{4}|2])}{\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

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

$$\frac{m_t^2(3\langle 12\rangle\langle \mathbf{3}|\mathbf{4}|2]\langle \mathbf{14}\rangle\ldots\langle\{3\text{ terms}\}\rangle\ldots-3/2\text{tr}(\mathbf{3}|\mathbf{4})\langle \mathbf{14}\rangle\langle \mathbf{31}\rangle)}{\langle 1|\mathbf{3}|\mathbf{5}|1\rangle\langle 1|\mathbf{5}|2]}+$$

$$\frac{[\mathbf{24}]\langle 12\rangle m_t^2(3/2[\mathbf{3}|\mathbf{4}|1)-3/2[\mathbf{32}]\langle 12\rangle)}{\langle 1|\mathbf{3}|\mathbf{5}|1\rangle\langle 1|\mathbf{5}|2]}+$$

$$\frac{\langle \mathbf{31}\rangle m_t(-3/2[\mathbf{14}\rangle\langle 1|\mathbf{3}|\mathbf{4}|1\rangle\ldots\langle\{4\text{ terms}\}\rangle\ldots-3/2\langle 1|\mathbf{3}|\mathbf{4}]\text{tr}(\mathbf{3}|\mathbf{4})-3/2\langle 1|\mathbf{3}|\mathbf{4}]\langle 2|\mathbf{4}|2])}{\langle 1|\mathbf{3}|\mathbf{5}|1\rangle\langle 1|\mathbf{5}|2]}+$$

$$\frac{\langle \mathbf{32}\rangle m_t(-8/3\langle 2|\mathbf{3}|\mathbf{4}]+8/3\langle 12)[\mathbf{14}])}{\langle 12\rangle(s_{\mathbf{124}}-m_t^2)}+$$

$$\frac{8/3\langle 2\mathbf{4}\rangle[\mathbf{3}|\mathbf{4}|2\rangle m_t}{\langle 12\rangle(s_{\mathbf{124}}-m_t^2)}+$$

$$\frac{(8/3\langle 2\mathbf{4}\rangle\langle \mathbf{32}\rangle\langle 2|\mathbf{3}|2]\ldots\langle\{3\text{ terms}\}\rangle\ldots-8/3\langle 2\mathbf{4}\rangle\langle \mathbf{32}\rangle m_t^2)}{\langle 12\rangle(s_{\mathbf{124}}-m_t^2)}+$$

$$\frac{-8/3\langle 2|\mathbf{3}|\mathbf{4}][\mathbf{3}|\mathbf{4}|2\rangle}{\langle 12\rangle(s_{\mathbf{124}}-m_t^2)}+$$

$$\frac{-8/3\text{tr}(\mathbf{3}|\mathbf{4})\langle 2|\mathbf{4}|1]\langle \mathbf{34}\rangle}{\langle 12\rangle[12](s_{\mathbf{124}}-m_t^2)}+$$

$$\frac{(\text{tr}(\mathbf{5}|\mathbf{3})\text{tr}(\mathbf{5}|\mathbf{4})-2m_h^2\text{tr}(\mathbf{3}|\mathbf{4}))m_t(\langle 2|\mathbf{3}|1+2|\mathbf{4}|1]-\langle 2|\mathbf{4}|1+2|\mathbf{3}|1])(-3/16\langle \mathbf{32}\rangle[2\mathbf{4}]\langle 2|\mathbf{4}|2]m_t^2\ldots\langle\{29\text{ terms}\}\rangle\ldots-1/48\text{tr}(\mathbf{3}|\mathbf{4})\langle 2|\mathbf{3}|\mathbf{4}]\langle \mathbf{3}|\mathbf{4}|2])}{\langle 12\rangle[12]\Delta^2_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{m_t(\text{tr}(\mathbf{5}|\mathbf{3})\text{tr}(\mathbf{3}|\mathbf{4})-2m_t^2\text{tr}(\mathbf{5}|\mathbf{4}))(\langle 2|\mathbf{3}|1+2|\mathbf{4}|1]-\langle 2|\mathbf{4}|1+2|\mathbf{3}|1])(5/24\langle 1|\mathbf{3}|2]\langle \mathbf{32}\rangle\langle 2|\mathbf{3}|2][\mathbf{14}]\ldots\langle\{45\text{ terms}\}\rangle\ldots+1/48\text{tr}(\mathbf{3}|\mathbf{4})\langle 2|\mathbf{3}|\mathbf{4}]\langle \mathbf{3}|\mathbf{4}|2])}{\langle 12\rangle[12]\Delta^2_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{m_t(\langle \mathbf{3}|\mathbf{@}(|1|2|\mathbf{3}+\mathbf{4}|\mathbf{4}|\mathbf{3}+\mathbf{4}|-|1|\mathbf{3}+\mathbf{4}|1|\mathbf{4}|\mathbf{3}+\mathbf{4}|+|1|\mathbf{3}+\mathbf{4}|\mathbf{3}+\mathbf{4}|\mathbf{4}|1+2|-|\mathbf{3}+\mathbf{4}|2|\mathbf{3}+\mathbf{4}|\mathbf{4}|1+2|)@|\mathbf{4}])(3/8\langle 1|\mathbf{3}|1]-3/8\langle 2|\mathbf{3}|2]+3/8\text{tr}(\mathbf{3}|\mathbf{4})-3/4m_t^2)}{\langle 1|\mathbf{5}|2]\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{m_t(3/2\langle \mathbf{32}\rangle[2\mathbf{4}]-3/2[\mathbf{14}\rangle\langle \mathbf{31}\rangle)}{\langle 1|\mathbf{5}|2]}+$$

$$\frac{3m_t^2\langle \mathbf{34}\rangle}{\langle 1|\mathbf{5}|2]}+$$

$$\frac{(\text{tr}(\mathbf{5}|\mathbf{3})\text{tr}(\mathbf{5}|\mathbf{4})-2m_h^2\text{tr}(\mathbf{3}|\mathbf{4}))m_t^2(-1/3\langle \mathbf{3}|\mathbf{4}|1]\langle 2|\mathbf{3}|\mathbf{4}|2\rangle\langle \mathbf{14}\rangle\ldots\langle\{11\text{ terms}\}\rangle\ldots-1/3\langle 2\mathbf{4}\rangle\langle 2|\mathbf{3}|\mathbf{4}|2\rangle\langle \mathbf{3}|\mathbf{4}|2])}{\langle 12\rangle\Delta_{12\mathbf{4}|\mathbf{3}|\mathbf{5}}\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{\langle 2|\mathbf{3}|\mathbf{4}|2\rangle[\mathbf{34}](\text{tr}(\mathbf{5}|\mathbf{3})\text{tr}(\mathbf{5}|\mathbf{4})-2m_h^2\text{tr}(\mathbf{3}|\mathbf{4}))m_t^2(1/6\text{tr}(\mathbf{3}|\mathbf{4})+1/6\langle 2|\mathbf{3}|2]+1/6\langle 1|\mathbf{3}|1])}{\langle 12\rangle\Delta_{12\mathbf{4}|\mathbf{3}|\mathbf{5}}\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{m_t(-5/12\langle 12\rangle\langle \mathbf{3}|\mathbf{4}|2]\langle 2|\mathbf{3}|1]\langle 2|\mathbf{3}|\mathbf{4}]\ldots\langle\{54\text{ terms}\}\rangle\ldots+7/6\langle \mathbf{32}\rangle[2\mathbf{4}]\langle 2|\mathbf{4}|1]\langle 1|\mathbf{3}|\mathbf{4}|2\rangle)}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{m_t(1/4\langle 2\mathbf{4}\rangle[\mathbf{32}]\langle 2|\mathbf{3}|\mathbf{4}|2\rangle\langle 1|\mathbf{4}|1]\ldots\langle\{16\text{ terms}\}\rangle\ldots+1/4[\mathbf{31}]\langle 2|\mathbf{3}|\mathbf{4}|2\rangle\langle 1\mathbf{4}\rangle\text{tr}(\mathbf{3}|\mathbf{4}))}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{m_t(1/6\text{tr}(\mathbf{3}|\mathbf{4})\langle 2|\mathbf{3}|\mathbf{4}][1|\mathbf{3}|\mathbf{4}|1\rangle\langle \mathbf{31}\rangle\ldots\langle\{14\text{ terms}\}\rangle\ldots+2/3\langle \mathbf{32}\rangle[2\mathbf{4}]\langle 2|\mathbf{4}|1]m_t^4)}{\langle 12\rangle[12]\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{(2/3\text{tr}(\mathbf{3}|\mathbf{4})\langle \mathbf{32}\rangle\langle 2|\mathbf{3}|\mathbf{4}|2\rangle[2|\mathbf{3}|\mathbf{4}\rangle\ldots\langle\{10\text{ terms}\}\rangle\ldots-1/3\langle 12\rangle\langle \mathbf{34}\rangle\text{tr}(\mathbf{3}|\mathbf{4})\langle 2|\mathbf{3}|1]\langle 2|\mathbf{3}|2])}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{\text{tr}(\mathbf{3}|\mathbf{4})\langle 2|\mathbf{3}|\mathbf{4}|2\rangle[\mathbf{34}](-1/3\text{tr}(\mathbf{3}|\mathbf{4})+1/3\langle 1|\mathbf{3}|1]+1/3\langle 2|\mathbf{3}|2])}{\langle 12\rangle\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

$$\frac{\text{tr}(\mathbf{3}|\mathbf{4})(-2/3\langle \mathbf{3}|\mathbf{4}|1]\langle 2|\mathbf{3}|\mathbf{4}|2\rangle[2|\mathbf{3}|\mathbf{4}\rangle-2/3\langle \mathbf{34}\rangle[1|\mathbf{3}|\mathbf{4}|1\rangle\langle 1|\mathbf{3}|\mathbf{4}|2\rangle)}{\langle 12\rangle[12]\Delta_{12|\mathbf{3}|\mathbf{4}|\mathbf{5}}}+$$

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