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\mathsf{C}_{\mathsf{H}^2} \left( \mathsf{c}_{\scriptscriptstyle{\Upsilon}} \, \overline{\mathsf{a}_{\mathsf{e}}}^{\mathsf{pr}} - \mathsf{s}_{\scriptscriptstyle{\Upsilon}} \, \widetilde{\mu} \, \overline{\mathsf{y}_{\mathsf{e}}}^{\mathsf{pr}} \right) \, \left( \mathsf{c}_{\scriptscriptstyle{\Upsilon}} \, \mathsf{a}_{\mathsf{e}}^{\, \mathsf{pr}} - \mathsf{s}_{\scriptscriptstyle{\Upsilon}} \, \widetilde{\mu} \, \mathsf{y}_{\mathsf{e}}^{\, \mathsf{pr}} \right) \, \mathsf{LF}_{3,1,-1} \big[ \, \mathsf{m}_{\scriptscriptstyle{\widetilde{1}}}^{\, \, \mathsf{p}} \, , \, \, \mathsf{m}_{\scriptscriptstyle{\widetilde{e}}}^{\, \, \mathsf{r}} \, \big] \, - \, \mathsf{m}_{\scriptscriptstyle{\widetilde{e}}}^{\, \, \mathsf{r}} \, \mathsf{m}_{\scriptscriptstyle{\widetilde{e}}}^{\, \, \, \mathsf{r}} \, \mathsf{m}_{\scriptscriptstyle{\widetilde{e}}}^{\, \, \mathsf{r}} \, \mathsf{r}} \, \mathsf{m}_{\scriptscriptstyle{\widetilde{e}}}^{\, \, \mathsf{r}} \, \mathsf{m}_{\scriptscriptstyle{\widetilde{e}}
                                                                                                   C_{H^2}^2 \left( c_{\Upsilon} \overline{a_e}^{pr} - s_{\Upsilon} \widetilde{\mu} \overline{y_e}^{pr} \right) \left( c_{\Upsilon} a_e^{pr} - s_{\Upsilon} \widetilde{\mu} y_e^{pr} \right) LF_{3,1,0} \left[ m_{\widetilde{A}}^p, m_{\widetilde{A}}^r \right] +
                                                                                                      3 C_{H^2}^2 \left( c_{\gamma} \overline{a_e}^{pr} - s_{\gamma} \widetilde{\mu} \overline{y_e}^{pr} \right) \left( c_{\gamma} a_e^{pr} - s_{\gamma} \widetilde{\mu} y_e^{pr} \right) LF_{4,1,-1} \left[ m_{\tilde{i}}^{p}, m_{\tilde{e}}^{r} \right] - C_{4,1,-1} \left[ m_{\tilde{i}}^{p}, m_{\tilde{e}}^{r} \right] - C_{4,1,-1} \left[ m_{\tilde{i}}^{p}, m_{\tilde{e}}^{r} \right]
                                                                                                      2\;C_{H^2}^2\;\left(c_\gamma\;\overline{a_e}^{pr}-s_\gamma\;\widetilde{\mu}\;\overline{y_e}^{pr}\right)\;\left(c_\gamma\;a_e^{pr}-s_\gamma\;\widetilde{\mu}\;y_e^{pr}\right)\;LF_{5,1,-2}\big[\,{m_{\widetilde{i}}}^p,\,{m_{\widetilde{e}}}^r\big]\;-
                                                                                                      3 C_{H^2} \left( c_{\Upsilon} \overline{a_d}^{pr} - s_{\Upsilon} \widetilde{\mu} \overline{y_d}^{pr} \right) \left( c_{\Upsilon} a_d^{pr} - s_{\Upsilon} \widetilde{\mu} y_d^{pr} \right) LF_{2,1,0} \left[ m_{\tilde{a}}^{p}, m_{\tilde{a}}^{r} \right] +
                                                                                                      3 C_{H^2} \left( c_{\Upsilon} \overline{a_d}^{pr} - s_{\Upsilon} \widetilde{\mu} \overline{y_d}^{pr} \right) \left( c_{\Upsilon} a_d^{pr} - s_{\Upsilon} \widetilde{\mu} y_d^{pr} \right) LF_{3,1,-1} \left[ m_{\tilde{q}}^{p}, m_{\tilde{d}}^{r} \right] - 
                                                                                                      3 C_{H^2}^2 \left( c_{\gamma} \overline{a_d}^{pr} - s_{\gamma} \widetilde{\mu} \overline{y_d}^{pr} \right) \left( c_{\gamma} a_d^{pr} - s_{\gamma} \widetilde{\mu} y_d^{pr} \right) LF_{3,1,0} \left[ m_{\tilde{a}}^{p}, m_{\tilde{a}}^{r} \right] +
                                                                                                   9 C_{H^2}^2 \left( c_{\gamma} \overline{a_d}^{pr} - s_{\gamma} \widetilde{\mu} \overline{y_d}^{pr} \right) \left( c_{\gamma} a_d^{pr} - s_{\gamma} \widetilde{\mu} y_d^{pr} \right) LF_{4,1,-1} \left[ m_{\tilde{q}}^{p}, m_{\tilde{d}}^{r} \right] -
                                                                                                   6 \; C_{H^2}{}^2 \; \left( \; c_{_{Y}} \; \overline{a_d}^{pr} - s_{_{Y}} \; \widetilde{\mu} \; \overline{y_d}^{pr} \right) \; \left( \; c_{_{Y}} \; a_d{}^{pr} - s_{_{Y}} \; \widetilde{\mu} \; y_d{}^{pr} \right) \; LF_{5,1,-2} \left[ \; m_{\tilde{q}}{}^p \; , \; m_{\tilde{d}}{}^r \; \right] \; - \\
                                                                                                      3 \; C_{H^2} \; \left( s_{\gamma} \; \overline{a_{u}}^{pr} - \widetilde{\mu} \; c_{\gamma} \; \overline{y_{u}}^{pr} \right) \; \left( s_{\gamma} \; a_{u}^{\; pr} - \widetilde{\mu} \; c_{\gamma} \; y_{u}^{\; pr} \right) \; LF_{2,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; p} \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; \right] \; + \; C_{1,1,0} \left[ m_{\widetilde{u}}^{\; r} \; , \; m_{\widetilde{a}}^{\; r} \; ,
                                                                                                      3~C_{H^2}~\left(s_{_{Y}}~\overline{a_u}^{pr}-\widetilde{\mu}~c_{_{Y}}~\overline{y_u}^{pr}\right)~\left(s_{_{Y}}~a_u^{~pr}-\widetilde{\mu}~c_{_{Y}}~y_u^{~pr}\right)~LF_{3,1,^{-1}}\left[\textbf{m}_{\tilde{u}}^{~r},~\textbf{m}_{\tilde{u}}^{~p}\right]~-
                                                                                                      3 C_{H^2}^2 \left( s_{\gamma} \overline{a_u}^{pr} - \widetilde{\mu} c_{\gamma} \overline{y_u}^{pr} \right) \left( s_{\gamma} a_u^{pr} - \widetilde{\mu} c_{\gamma} y_u^{pr} \right) LF_{3,1,0} \left[ m_{\tilde{u}}^r, m_{\tilde{q}}^p \right] +
                                                                                                   9 \, C_{H^2}^2 \, \left( s_{\gamma} \, \overline{a_{u}}^{\text{pr}} - \widetilde{\mu} \, c_{\gamma} \, \overline{y_{u}}^{\text{pr}} \right) \, \left( s_{\gamma} \, a_{u}^{\text{pr}} - \widetilde{\mu} \, c_{\gamma} \, y_{u}^{\text{pr}} \right) \, LF_{4,1,-1} \left[ m_{\widetilde{u}}^{\text{r}}, \, m_{\widetilde{u}}^{\text{p}} \right] - C_{1}^{\text{pr}} \, \left( s_{\gamma} \, a_{u}^{\text{pr}} + \widetilde{\mu} \, c_{\gamma} \, y_{u}^{\text{pr}} \right) \, LF_{4,1,-1} \left[ m_{\widetilde{u}}^{\text{r}}, \, m_{\widetilde{u}}^{\text{p}} \right] - C_{1}^{\text{pr}} \, \left( s_{\gamma} \, a_{u}^{\text{pr}} + \widetilde{\mu} \, c_{\gamma} \, y_{u}^{\text{pr}} \right) \, LF_{4,1,-1} \left[ m_{\widetilde{u}}^{\text{r}}, \, m_{\widetilde{u}}^{\text{p}} \right] \right] - C_{1}^{\text{pr}} \, \left( s_{\gamma} \, a_{u}^{\text{pr}} + \widetilde{\mu} \, c_{\gamma} \, y_{u}^{\text{pr}} \right) \, LF_{4,1,-1} \left[ m_{\widetilde{u}}^{\text{r}}, \, m_{\widetilde{u}}^{\text{p}} \right] - C_{1}^{\text{pr}} \, \left( s_{\gamma} \, a_{u}^{\text{pr}} + \widetilde{\mu} \, c_{\gamma} \, y_{u}^{\text{pr}} \right) \, LF_{4,1,-1} \left[ m_{\widetilde{u}}^{\text{r}}, \, m_{\widetilde{u}}^{\text{pr}} \right] \right] \, .
                                                                                                   6 \; C_{H^2}{}^2 \; \left( \; \mathsf{S}_{\scriptscriptstyle Y} \; \overline{\mathsf{a}_{\mathsf{u}}}^{\mathsf{pr}} - \widetilde{\mu} \; \mathsf{c}_{\scriptscriptstyle Y} \; \overline{\mathsf{y}_{\mathsf{u}}}^{\mathsf{pr}} \right) \; \left( \; \mathsf{S}_{\scriptscriptstyle Y} \; \mathsf{a}_{\mathsf{u}}^{\; \mathsf{pr}} - \widetilde{\mu} \; \mathsf{c}_{\scriptscriptstyle Y} \; \mathsf{y}_{\mathsf{u}}^{\; \mathsf{pr}} \right) \; \mathsf{LF}_{\mathsf{5},\mathsf{1},\mathsf{-2}} \left[ \; \mathsf{m}_{\tilde{\mathsf{u}}}^{\; \; \mathsf{r}} \; , \; \mathsf{m}_{\tilde{\mathsf{u}}}^{\; \; \mathsf{p}} \; \right] \; + \; \mathsf{T}_{\mathsf{0}} 
                                                                                                         \frac{3}{2} \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{2,1,-1}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; 2 \; \mathsf{m_1} \; \mathsf{s_{\scriptscriptstyle Y}} \; \mathsf{C_{H^2}} \; \widetilde{\mu} \; \mathsf{c_{\scriptscriptstyle Y}} \; \mathsf{g_1}^2 \; \mathsf{LF_{2,1,0}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; - \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{g_1}^2 \; \mathsf{LF_{3,1,-2}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{G_{1,1}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{G_{1,1}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{G_{1,1}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{G_{1,1}} [\, \widetilde{\mu} \,, \; \mathsf{m_1} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{G_{1,1}} [\, \widetilde{\mu} \,, \; \mathsf{G_{1,1}} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{G_{1,1}} [\, \widetilde{\mu} \,, \; \mathsf{G_{1,1}} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{G_{1,1}} [\, \widetilde{\mu} \,, \; \mathsf{G_{1,1}} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{G_{1,1}} [\, \widetilde{\mu} \,, \; \mathsf{G_{1,1}} \,] \; + \; \mathsf{C_{H^2}} \; \mathsf{G_{1,1}} [\, \widetilde{\mu} \,, \; \mathsf{G_{1,1}} \,] \; 
                                                                                                      2\;C_{H^2}\;g_1^{\;2}\;\left(C_{H^2}-m_1\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\right)\;LF_{3,1,-1}[\;\tilde{\mu},\;m_1\;]\;+\;2\;m_1\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_1^{\;2}\;C_{H^2}^{\;2}\;LF_{3,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;E_{1,1,0}[\;\tilde{\mu},\;m_1\;]\;-\;2\;m_1^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;s_{\gamma}^{\;2}\;s
                                                                                                      4 g_1^2 C_{H^2}^2 LF_{4,1,-2} [\tilde{\mu}, m_1] - 6 m_1 s_{\gamma} \tilde{\mu} c_{\gamma} g_1^2 C_{H^2}^2 LF_{4,1,-1} [\tilde{\mu}, m_1] +
                                                                                                      2 g_1^2 C_{H^2}^2 LF_{5,1,-3} [\tilde{\mu}, m_1] + 4 m_1 s_{\gamma} \tilde{\mu} c_{\gamma} g_1^2 C_{H^2}^2 LF_{5,1,-2} [\tilde{\mu}, m_1] +
                                                                                                         \frac{9}{2}\;C_{H^2}\;g_2^{\;2}\;LF_{2,1,-1}[\tilde{\mu},\;m_2]\;+\;6\;m_2\;s_\gamma\;C_{H^2}\;\tilde{\mu}\;c_\gamma\;g_2^{\;2}\;LF_{2,1,0}[\tilde{\mu},\;m_2]\;-\;3\;C_{H^2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;6\;m_2^{\;2}\;g_2^{\;2}\;LF_{3,1,-2}[\tilde{\mu},\;m_2]\;+\;
                                                                                                      6 \, C_{H^2} \, g_2^2 \, \left( C_{H^2} - m_2 \, s_\gamma \, \widetilde{\mu} \, c_\gamma \right) \, LF_{3,1,-1}[\, \widetilde{\mu} \, , \, m_2 \, ] \, + \, 6 \, m_2 \, s_\gamma \, \widetilde{\mu} \, c_\gamma \, g_2^2 \, C_{H^2}^2 \, LF_{3,1,0}[\, \widetilde{\mu} \, , \, m_2 \, ] \, - \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \, , \, \widetilde{\mu} \, ] \, + \, C_{H^2}[\, \widetilde{\mu} \,
                                                                                                         12 g_2^2 C_{H^2}^2 LF_{4,1,-2}[\tilde{\mu}, m_2] - 18 m_2 S_{\gamma} \tilde{\mu} C_{\gamma} g_2^2 C_{H^2}^2 LF_{4,1,-1}[\tilde{\mu}, m_2] +
                                                                                                      6\;{\rm g_2}^2\;{\rm C_{H^2}}^2\;{\rm LF_{5,1,-3}}\left[\tilde{\mu}\,,\;{\rm m_2}\right]\,+\,12\;{\rm m_2}\;{\rm s_\gamma}\;\tilde{\mu}\;{\rm c_\gamma}\;{\rm g_2}^2\;{\rm C_{H^2}}^2\;{\rm LF_{5,1,-2}}\left[\tilde{\mu}\,,\;{\rm m_2}\right]\,\right)
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