$$
\begin{aligned}
&Y_e^{i1\_i2\_} \to \\
&c_\gamma\, y_e^{i1i2} + \frac{1}{16\,\pi^2}\Big(\frac{1}{16}\,c_\gamma\,\frac{1}{m_\Phi^2}\Big(m_\Phi^2\, y_e^{i1i2}\Big(3\,g_2^2\Big(1+2\,c_\gamma^2+2\,s_\gamma^2\Big)+g_1^2\Big(5+2\,c_\gamma^2+2\,s_\gamma^2\Big)\Big)+\overline{y_e}^{pr}\\
&\quad\Big(6\,m_\Phi^2\, y_e^{pi2}\, y_e^{i1r}\Big(1+s_\gamma^2\Big)-8\,C_{H^2}\,s_\gamma^2\, y_e^{pr}\, y_e^{i1i2}\Big)\Big)+\frac{1}{2}\sum\nolimits_p s_{2\gamma}\,s_\gamma\,g_1^2\,\frac{1}{m_\Phi^4}\, y_e^{i1i2}\\
&\quad\Big(C_{H^2}-m_\Phi^2\Big)\,LF_{1,0}\Big[\tilde{m}_d^{\,p}\Big]+\frac{3}{2}\,s_{2\gamma}\,s_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_d}^{pr}\,y_d^{pr}\,y_e^{i1i2}\Big(-C_{H^2}+m_\Phi^2\Big)\,LF_{1,0}\Big[\tilde{m}_d^{\,r}\Big]+\\
&\frac{1}{2}\sum\nolimits_p s_{2\gamma}\,s_\gamma\,g_1^2\,\frac{1}{m_\Phi^4}\, y_e^{i1i2}\Big(C_{H^2}-m_\Phi^2\Big)\,LF_{1,0}\Big[\tilde{m}_e^{\,p}\Big]+\frac{1}{2}\,s_{2\gamma}\,s_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{pr}\,y_e^{pr}\,y_e^{i1i2}\\
&\quad\Big(-C_{H^2}+m_\Phi^2\Big)\,LF_{1,0}\Big[\tilde{m}_e^{\,r}\Big]+\frac{1}{2}\,s_{2\gamma}\,s_\gamma\,\frac{1}{m_\Phi^4}\,y_e^{i1i2}\Big(-C_{H^2}+m_\Phi^2\Big)\Big(\overline{y_e}^{pr}\,y_e^{pr}+\sum\nolimits_p g_1^2\Big)\,LF_{1,0}\Big[\tilde{m}_l^{\,p}\Big]-\\
&\frac{1}{2}\,s_{2\gamma}\,s_\gamma\,\frac{1}{m_\Phi^4}\,y_e^{i1i2}\Big(-C_{H^2}+m_\Phi^2\Big)\Big(-3\,\overline{y_d}^{pr}\,y_d^{pr}+3\,\overline{y_u}^{pr}\,y_u^{pr}+\sum\nolimits_p g_1^2\Big)\,LF_{1,0}\Big[\tilde{m}_q^{\,p}\Big]+\\
&\sum\nolimits_p s_{2\gamma}\,s_\gamma\,g_1^2\,\frac{1}{m_\Phi^4}\,y_e^{i1i2}\Big(-C_{H^2}+m_\Phi^2\Big)\,LF_{1,0}\Big[\tilde{m}_u^{\,p}\Big]+\\
&\frac{3}{2}\,s_{2\gamma}\,s_\gamma\,\frac{1}{m_\Phi^4}\,y_e^{i1i2}\,\overline{y_u}^{pr}\,y_u^{pr}\Big(C_{H^2}-m_\Phi^2\Big)\,LF_{1,0}\Big[\tilde{m}_u^{\,r}\Big]+\\
&\frac{3}{8}\,s_{4\gamma}\,s_\gamma\,\frac{1}{m_\Phi^4}\,y_e^{i1i2}\Big(g_1^2+g_2^2\Big)\Big(C_{H^2}-m_\Phi^2\Big)\,LF_{1,0}[m_\Phi]-\frac{3}{4}\,c_\gamma\,s_\gamma^2\,\overline{y_e}^{pr}\,y_e^{pi2}\,y_e^{i1r}\,LF_{1,1}[m_\Phi]-\\
&c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{1,1,0}\Big[m_1,\tilde{m}_e^{\,i2}\Big]+\frac{1}{2}\,c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{2,1,-1}\Big[m_1,\tilde{m}_e^{\,i2}\Big]-\\
&\frac{1}{4}\,c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{1,1,0}\Big[m_1,\tilde{m}_l^{\,i1}\Big]+\frac{1}{8}\,c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{2,1,-1}\Big[m_1,\tilde{m}_l^{\,i1}\Big]+\\
&m_1\,s_\gamma\,\tilde{\mu}\,g_1^2\,\frac{1}{m_\Phi^4}\,y_e^{i1i2}\Big(C_{H^2}-m_\Phi^2\Big)\Big(-c_\gamma^2+s_\gamma^2\Big)\,LF_{1,1,0}[m_1,\tilde{\mu}]-\\
&\frac{3}{4}\,c_\gamma\,g_2^2\,y_e^{i1i2}\,LF_{1,1,0}\Big[m_2,\tilde{m}_l^{\,i1}\Big]+\frac{3}{8}\,c_\gamma\,g_2^2\,y_e^{i1i2}\,LF_{2,1,-1}\Big[m_2,\tilde{m}_l^{\,i1}\Big]+\\
&3\,m_2\,s_\gamma\,\tilde{\mu}\,g_2^2\,\frac{1}{m_\Phi^4}\,y_e^{i1i2}\Big(C_{H^2}-m_\Phi^2\Big)\Big(-c_\gamma^2+s_\gamma^2\Big)\,LF_{1,1,0}[m_2,\tilde{\mu}]+\\
&3\,s_\gamma\,\frac{1}{m_\Phi^4}\,y_e^{i1i2}\Big(C_{H^2}-m_\Phi^2\Big)\Big(s_\gamma\,\overline{a_d}^{pr}+\tilde{\mu}\,c_\gamma\,\overline{y_d}^{pr}\Big)\Big(-c_\gamma\,a_d^{pr}+s_\gamma\,\tilde{\mu}\,y_d^{pr}\Big)\,LF_{1,1,0}\Big[\tilde{m}_d^{\,r},\tilde{m}_q^{\,p}\Big]+\\
&s_\gamma\,\frac{1}{m_\Phi^4}\,y_e^{i1i2}\Big(C_{H^2}-m_\Phi^2\Big)\Big(s_\gamma\,\overline{a_e}^{pr}+\tilde{\mu}\,c_\gamma\,\overline{y_e}^{pr}\Big)\Big(-c_\gamma\,a_e^{pr}+s_\gamma\,\tilde{\mu}\,y_e^{pr}\Big)\,LF_{1,1,0}\Big[\tilde{m}_e^{\,r},\tilde{m}_l^{\,p}\Big]-\\
&\frac{1}{2}\,c_\gamma\,\overline{y_e}^{pr}\,y_e^{pi2}\,y_e^{i1r}\,LF_{1,1,0}\Big[\tilde{m}_e^{\,r},\tilde{\mu}\Big]+\frac{1}{2}\,\frac{1}{m_\Phi^2}\,y_e^{i1i2}\\
&\Big(\overline{a_e}^{pr}\Big(m_\Phi^2\,c_\gamma^2+2\,C_{H^2}\,s_\gamma^2\Big)+s_\gamma\,\tilde{\mu}\,c_\gamma\,\overline{y_e}^{pr}\Big(2\,C_{H^2}-m_\Phi^2\Big)\Big)\Big(c_\gamma\,a_e^{pr}-s_\gamma\,\tilde{\mu}\,y_e^{pr}\Big)\,LF_{2,1,0}\Big[\tilde{m}_l^{\,p},\tilde{m}_e^{\,r}\Big]-\\
&\frac{1}{2}\,\frac{1}{m_\Phi^2}\,y_e^{i1i2}\Big(\overline{a_e}^{pr}\Big(m_\Phi^2\,c_\gamma^2+2\,C_{H^2}\,s_\gamma^2\Big)+s_\gamma\,\tilde{\mu}\,c_\gamma\,\overline{y_e}^{pr}\Big(2\,C_{H^2}-m_\Phi^2\Big)\Big)\Big(c_\gamma\,a_e^{pr}-s_\gamma\,\tilde{\mu}\,y_e^{pr}\Big)\\
&\quad LF_{3,1,-1}\Big[\tilde{m}_l^{\,p},\tilde{m}_e^{\,r}\Big]+C_{H^2}\,c_\gamma\,y_e^{i1i2}\Big(c_\gamma\,\overline{a_e}^{pr}-s_\gamma\,\tilde{\mu}\,\overline{y_e}^{pr}\Big)\Big(c_\gamma\,a_e^{pr}-s_\gamma\,\tilde{\mu}\,y_e^{pr}\Big)\,LF_{3,1,0}\Big[\tilde{m}_l^{\,p},\tilde{m}_e^{\,r}\Big]-\\
&3\,C_{H^2}\,c_\gamma\,y_e^{i1i2}\Big(c_\gamma\,\overline{a_e}^{pr}-s_\gamma\,\tilde{\mu}\,\overline{y_e}^{pr}\Big)\Big(c_\gamma\,a_e^{pr}-s_\gamma\,\tilde{\mu}\,y_e^{pr}\Big)\,LF_{4,1,-1}\Big[\tilde{m}_l^{\,p},\tilde{m}_e^{\,r}\Big]+\\
&2\,C_{H^2}\,c_\gamma\,y_e^{i1i2}\Big(c_\gamma\,\overline{a_e}^{pr}-s_\gamma\,\tilde{\mu}\,\overline{y_e}^{pr}\Big)\Big(c_\gamma\,a_e^{pr}-s_\gamma\,\tilde{\mu}\,y_e^{pr}\Big)\,LF_{5,1,-2}\Big[\tilde{m}_l^{\,p},\tilde{m}_e^{\,r}\Big]-\\
&c_\gamma\,\overline{y_e}^{pr}\,y_e^{pi2}\,y_e^{i1r}\,LF_{1,1,0}\Big[\tilde{m}_l^{\,p},\tilde{\mu}\Big]+\\
&\frac{3}{2}\,\frac{1}{m_\Phi^2}\,y_e^{i1i2}\Big(\overline{a_d}^{pr}\Big(m_\Phi^2\,c_\gamma^2+2\,C_{H^2}\,s_\gamma^2\Big)+s_\gamma\,\tilde{\mu}\,c_\gamma\,\overline{y_d}^{pr}\Big(2\,C_{H^2}-m_\Phi^2\Big)\Big)\\
&\quad\Big(c_\gamma\,a_d^{pr}-s_\gamma\,\tilde{\mu}\,y_d^{pr}\Big)\,LF_{2,1,0}\Big[\tilde{m}_q^{\,p},\tilde{m}_d^{\,r}\Big]-\frac{3}{2}\,\frac{1}{m_\Phi^2}\,y_e^{i1i2}\\
&\quad\Big(\overline{a_d}^{pr}\Big(m_\Phi^2\,c_\gamma^2+2\,C_{H^2}\,s_\gamma^2\Big)+s_\gamma\,\tilde{\mu}\,c_\gamma\,\overline{y_d}^{pr}\Big(2\,C_{H^2}-m_\Phi^2\Big)\Big)\Big(c_\gamma\,a_d^{pr}-s_\gamma\,\tilde{\mu}\,y_d^{pr}\Big)\,LF_{3,1,-1}\Big[\tilde{m}_q^{\,p},\tilde{m}_d^{\,r}\Big]+\\
&3\,C_{H^2}\,c_\gamma\,y_e^{i1i2}\Big(c_\gamma\,\overline{a_d}^{pr}-s_\gamma\,\tilde{\mu}\,\overline{y_d}^{pr}\Big)\Big(c_\gamma\,a_d^{pr}-s_\gamma\,\tilde{\mu}\,y_d^{pr}\Big)\,LF_{3,1,0}\Big[\tilde{m}_q^{\,p},\tilde{m}_d^{\,r}\Big]-\\
&9\,C_{H^2}\,c_\gamma\,y_e^{i1i2}\Big(c_\gamma\,\overline{a_d}^{pr}-s_\gamma\,\tilde{\mu}\,\overline{y_d}^{pr}\Big)\Big(c_\gamma\,a_d^{pr}-s_\gamma\,\tilde{\mu}\,y_d^{pr}\Big)\,LF_{4,1,-1}\Big[\tilde{m}_q^{\,p},\tilde{m}_d^{\,r}\Big]+\\
&6\,C_{H^2}\,c_\gamma\,y_e^{i1i2}\Big(c_\gamma\,\overline{a_d}^{pr}-s_\gamma\,\tilde{\mu}\,\overline{y_d}^{pr}\Big)\Big(c_\gamma\,a_d^{pr}-s_\gamma\,\tilde{\mu}\,y_d^{pr}\Big)\,LF_{5,1,-2}\Big[\tilde{m}_q^{\,p},\tilde{m}_d^{\,r}\Big]+\\
&3\,s_\gamma\,\frac{1}{m_\Phi^4}\,y_e^{i1i2}\Big(C_{H^2}-m_\Phi^2\Big)\Big(s_\gamma\,\overline{a_u}^{pr}-\tilde{\mu}\,c_\gamma\,\overline{y_u}^{pr}\Big)\Big(c_\gamma\,a_u^{pr}+s_\gamma\,\tilde{\mu}\,y_u^{pr}\Big)\,LF_{1,1,0}\Big[\tilde{m}_q^{\,p},\tilde{m}_u^{\,r}\Big]-\\
&\frac{3}{2}\,\frac{1}{m_\Phi^2}\,y_e^{i1i2}\Big(s_\gamma\,\overline{a_u}^{pr}-\tilde{\mu}\,c_\gamma\,\overline{y_u}^{pr}\Big)\Big(s_\gamma\,c_\gamma\,a_u^{pr}\Big(2\,C_{H^2}-m_\Phi^2\Big)+\tilde{\mu}\,y_u^{pr}\Big(m_\Phi^2\,c_\gamma^2+2\,C_{H^2}\,s_\gamma^2\Big)\Big)\\
&\quad LF_{2,1,0}\Big[\tilde{m}_u^{\,r},\tilde{m}_q^{\,p}\Big]+\frac{3}{2}\,\frac{1}{m_\Phi^2}\,y_e^{i1i2}\Big(s_\gamma\,\overline{a_u}^{pr}-\tilde{\mu}\,c_\gamma\,\overline{y_u}^{pr}\Big)\\
&\quad\Big(s_\gamma\,c_\gamma\,a_u^{pr}\Big(2\,C_{H^2}-m_\Phi^2\Big)+\tilde{\mu}\,y_u^{pr}\Big(m_\Phi^2\,c_\gamma^2+2\,C_{H^2}\,s_\gamma^2\Big)\Big)\,LF_{3,1,-1}\Big[\tilde{m}_u^{\,r},\tilde{m}_q^{\,p}\Big]+\\
&3\,C_{H^2}\,c_\gamma\,y_e^{i1i2}\Big(-s_\gamma\,\overline{a_u}^{pr}+\tilde{\mu}\,c_\gamma\,\overline{y_u}^{pr}\Big)\Big(-s_\gamma\,a_u^{pr}+\tilde{\mu}\,c_\gamma\,y_u^{pr}\Big)\,LF_{3,1,0}\Big[\tilde{m}_u^{\,r},\tilde{m}_q^{\,p}\Big]-\\
&9\,C_{H^2}\,c_\gamma\,y_e^{i1i2}\Big(-s_\gamma\,\overline{a_u}^{pr}+\tilde{\mu}\,c_\gamma\,\overline{y_u}^{pr}\Big)\Big(-s_\gamma\,a_u^{pr}+\tilde{\mu}\,c_\gamma\,y_u^{pr}\Big)\,LF_{4,1,-1}\Big[\tilde{m}_u^{\,r},\tilde{m}_q^{\,p}\Big]+\\
&6\,C_{H^2}\,c_\gamma\,y_e^{i1i2}\Big(-s_\gamma\,\overline{a_u}^{pr}+\tilde{\mu}\,c_\gamma\,\overline{y_u}^{pr}\Big)\Big(-s_\gamma\,a_u^{pr}+\tilde{\mu}\,c_\gamma\,y_u^{pr}\Big)\,LF_{5,1,-2}\Big[\tilde{m}_u^{\,r},\tilde{m}_q^{\,p}\Big]-\\
&\frac{3}{4}\,c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{2,1,-1}[\tilde{\mu},m_1]-m_1\,s_\gamma\,\tilde{\mu}\,g_1^2\,\frac{1}{m_\Phi^2}\,y_e^{i1i2}\\
&\Big(c_\gamma^2\Big(-C_{H^2}+m_\Phi^2\Big)+C_{H^2}\,s_\gamma^2\Big)\,LF_{2,1,0}[\tilde{\mu},m_1]+\frac{1}{2}\,c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{3,1,-2}[\tilde{\mu},m_1]+\\
&g_1^2\,\frac{1}{m_\Phi^2}\,y_e^{i1i2}\Big(-2\,C_{H^2}\,c_\gamma\,m_\Phi^2+m_1\,s_\gamma\,\tilde{\mu}\Big(c_\gamma^2\Big(-C_{H^2}+m_\Phi^2\Big)+C_{H^2}\,s_\gamma^2\Big)\Big)\,LF_{3,1,-1}[\tilde{\mu},m_1]-\\
&2\,m_1\,s_\gamma\,C_{H^2}\,\tilde{\mu}\,g_1^2\,c_\gamma^2\,y_e^{i1i2}\,LF_{3,1,0}[\tilde{\mu},m_1]+4\,C_{H^2}\,c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{4,1,-2}[\tilde{\mu},m_1]+\\
&6\,m_1\,s_\gamma\,C_{H^2}\,\tilde{\mu}\,g_1^2\,c_\gamma^2\,y_e^{i1i2}\,LF_{4,1,-1}[\tilde{\mu},m_1]-2\,C_{H^2}\,c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{5,1,-3}[\tilde{\mu},m_1]-\\
&4\,m_1\,s_\gamma\,C_{H^2}\,\tilde{\mu}\,g_1^2\,c_\gamma^2\,y_e^{i1i2}\,LF_{5,1,-2}[\tilde{\mu},m_1]-\frac{9}{4}\,c_\gamma\,g_2^2\,y_e^{i1i2}\,LF_{2,1,-1}[\tilde{\mu},m_2]-3\,m_2\,s_\gamma\,\tilde{\mu}\,g_2^2\\
&\frac{1}{m_\Phi^2}\,y_e^{i1i2}\Big(c_\gamma^2\Big(-C_{H^2}+m_\Phi^2\Big)+C_{H^2}\,s_\gamma^2\Big)\,LF_{2,1,0}[\tilde{\mu},m_2]+\frac{3}{2}\,c_\gamma\,g_2^2\,y_e^{i1i2}\,LF_{3,1,-2}[\tilde{\mu},m_2]+\\
&3\,g_2^2\,\frac{1}{m_\Phi^2}\,y_e^{i1i2}\Big(-2\,C_{H^2}\,c_\gamma\,m_\Phi^2+m_2\,s_\gamma\,\tilde{\mu}\Big(c_\gamma^2\Big(-C_{H^2}+m_\Phi^2\Big)+C_{H^2}\,s_\gamma^2\Big)\Big)\,LF_{3,1,-1}[\tilde{\mu},m_2]-\\
&6\,m_2\,s_\gamma\,C_{H^2}\,\tilde{\mu}\,g_2^2\,c_\gamma^2\,y_e^{i1i2}\,LF_{3,1,0}[\tilde{\mu},m_2]+12\,C_{H^2}\,c_\gamma\,g_2^2\,y_e^{i1i2}\,LF_{4,1,-2}[\tilde{\mu},m_2]+\\
&18\,m_2\,s_\gamma\,C_{H^2}\,\tilde{\mu}\,g_2^2\,c_\gamma^2\,y_e^{i1i2}\,LF_{4,1,-1}[\tilde{\mu},m_2]-\\
&6\,C_{H^2}\,c_\gamma\,g_2^2\,y_e^{i1i2}\,LF_{5,1,-3}[\tilde{\mu},m_2]-12\,m_2\,s_\gamma\,C_{H^2}\,\tilde{\mu}\,g_2^2\,c_\gamma^2\,y_e^{i1i2}\,LF_{5,1,-2}[\tilde{\mu},m_2]+\\
&\frac{1}{4}\,c_\gamma\,\overline{y_e}^{pr}\,y_e^{pi2}\,y_e^{i1r}\,LF_{2,1,-1}\Big[\tilde{\mu},\tilde{m}_e^{\,r}\Big]+\frac{1}{2}\,c_\gamma\,\overline{y_e}^{pr}\,y_e^{pi2}\,y_e^{i1r}\,LF_{2,1,-1}\Big[\tilde{\mu},\tilde{m}_l^{\,p}\Big]+\\
&m_1\,g_1^2\Big(c_\gamma\,a_e^{i1i2}-s_\gamma\,\tilde{\mu}\,y_e^{i1i2}\Big)\,LF_{1,1,1,0}\Big[m_1,\tilde{m}_e^{\,i2},\tilde{m}_l^{\,i1}\Big]+\\
&\frac{1}{4}\,m_1\,C_{H^2}\,g_1^2\Big(-c_\gamma\,a_e^{i1i2}+s_\gamma\,\tilde{\mu}\,y_e^{i1i2}\Big)\,LF_{2,2,1,-1}\Big[m_1,\tilde{m}_e^{\,i2},\tilde{m}_l^{\,i1}\Big]+\\
&c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{1,1,1,-1}\Big[m_1,\tilde{m}_e^{\,i2},\tilde{\mu}\Big]+m_1\,s_\gamma\,\tilde{\mu}\,g_1^2\,y_e^{i1i2}\,LF_{1,1,1,0}\Big[m_1,\tilde{m}_e^{\,i2},\tilde{\mu}\Big]+\\
&\frac{1}{4}\,m_1\,C_{H^2}\,g_1^2\Big(-c_\gamma\,a_e^{i1i2}+s_\gamma\,\tilde{\mu}\,y_e^{i1i2}\Big)\,LF_{2,2,1,-1}\Big[m_1,\tilde{m}_l^{\,i1},\tilde{m}_e^{\,i2}\Big]-\\
&\frac{1}{2}\,c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{1,1,1,-1}\Big[m_1,\tilde{m}_l^{\,i1},\tilde{\mu}\Big]-\frac{1}{2}\,m_1\,s_\gamma\,\tilde{\mu}\,g_1^2\,y_e^{i1i2}\,LF_{1,1,1,0}\Big[m_1,\tilde{m}_l^{\,i1},\tilde{\mu}\Big]+\\
&\frac{1}{2}\,C_{H^2}\,c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{2,2,1,-2}\Big[m_1,\tilde{\mu},\tilde{m}_e^{\,i2}\Big]+\frac{1}{2}\,m_1\,s_\gamma\,C_{H^2}\,\tilde{\mu}\,g_1^2\,y_e^{i1i2}\,LF_{2,2,1,-1}\Big[m_1,\tilde{\mu},\tilde{m}_e^{\,i2}\Big]-\\
&\frac{1}{4}\,C_{H^2}\,c_\gamma\,g_1^2\,y_e^{i1i2}\,LF_{2,2,1,-2}\Big[m_1,\tilde{\mu},\tilde{m}_l^{\,i1}\Big]-\frac{1}{4}\,m_1\,s_\gamma\,C_{H^2}\,\tilde{\mu}\,g_1^2\,y_e^{i1i2}\,LF_{2,2,1,-1}\Big[m_1,\tilde{\mu},\tilde{m}_l^{\,i1}\Big]+\\
&\frac{3}{2}\,c_\gamma\,g_2^2\,y_e^{i1i2}\,LF_{1,1,1,-1}\Big[m_2,\tilde{m}_l^{\,i1},\tilde{\mu}\Big]+\frac{3}{2}\,m_2\,s_\gamma\,\tilde{\mu}\,g_2^2\,y_e^{i1i2}\,LF_{1,1,1,0}\Big[m_2,\tilde{m}_l^{\,i1},\tilde{\mu}\Big]+\\
&\frac{3}{4}\,C_{H^2}\,c_\gamma\,g_2^2\,y_e^{i1i2}\,LF_{2,2,1,-2}\Big[m_2,\tilde{\mu},\tilde{m}_l^{\,i1}\Big]+\frac{3}{4}\,m_2\,s_\gamma\,C_{H^2}\,\tilde{\mu}\,g_2^2\,y_e^{i1i2}\,LF_{2,2,1,-1}\Big[m_2,\tilde{\mu},\tilde{m}_l^{\,i1}\Big]+\\
&\frac{1}{2}\,m_1\,C_{H^2}\,g_1^2\Big(c_\gamma\,a_e^{i1i2}-s_\gamma\,\tilde{\mu}\,y_e^{i1i2}\Big)\,LF_{2,1,1,0}\Big[\tilde{m}_e^{\,i2},m_1,\tilde{m}_l^{\,i1}\Big]+\\
&\frac{1}{2}\,m_1\,C_{H^2}\,g_1^2\Big(-c_\gamma\,a_e^{i1i2}+s_\gamma\,\tilde{\mu}\,y_e^{i1i2}\Big)\,LF_{3,1,1,-1}\Big[\tilde{m}_e^{\,i2},m_1,\tilde{m}_l^{\,i1}\Big]+\\
&\frac{1}{2}\,m_1\,C_{H^2}\,g_1^2\Big(c_\gamma\,a_e^{i1i2}-s_\gamma\,\tilde{\mu}\,y_e^{i1i2}\Big)\,LF_{2,1,1,0}\Big[\tilde{m}_l^{\,i1},m_1,\tilde{m}_e^{\,i2}\Big]+\\
&\frac{1}{2}\,m_1\,C_{H^2}\,g_1^2\Big(-c_\gamma\,a_e^{i1i2}+s_\gamma\,\tilde{\mu}\,y_e^{i1i2}\Big)\,LF_{3,1,1,-1}\Big[\tilde{m}_l^{\,i1},m_1,\tilde{m}_e^{\,i2}\Big]\Big)
\end{aligned}
$$