$$C_{le}{}^{i1\_i2\_i3\_i4\_} \to -\frac{1}{2}\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4} +$$

$$\hbar\left(-\frac{1}{144}\,\frac{1}{m_\Phi^2}\,s_\gamma^2\left(-72\,c_\gamma^2\,\overline{y_e}^{pr}\,\overline{y_e}^{i2i3}\,y_e^{pr}\,y_e^{i1i4} + 9\,\overline{y_e}^{i2i3}\left(3\,\overline{y_e}^{pr}\,y_e^{pi4}\,y_e^{i1r}\left(1+s_\gamma^2\right) +\right.\right.\right.$$

$$\left.y_e^{i1i4}\left(5\,g_1^2+3\,g_2^2\right)\right) + 27\,\overline{y_e}^{ri3}\,\overline{y_e}^{i2p}\left(4\,c_\gamma^2\,y_e^{ri4}\,y_e^{i1p} + y_e^{rp}\,y_e^{i1i4}\left(1+s_\gamma^2\right)\right) +$$

$$\left.10\,g_1^2\,\overline{y_e}^{pi3}\,y_e^{pi4}\,\delta_{i1i2} + 14\,g_1^2\,\overline{y_e}^{i2p}\,y_e^{i1p}\,\delta_{i3i4}\right) - \frac{1}{4}\sum_p s_\gamma\,g_1^2\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}$$

$$y_e^{i1i4}\left(2\,s_{2\gamma}\,c_\gamma + s_\gamma\,c_{2\gamma}\right) LF_{1,0}\left[m_{\tilde d}^p\right] + \frac{2}{27}\sum_p g_1^4\,LF_{3,0}\left[m_{\tilde d}^p\right]\delta_{i1i2}\,\delta_{i3i4} -$$

$$\frac{5}{36}\sum_p g_1^4\,LF_{4,-1}\left[m_{\tilde d}^p\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{8}{135}\sum_p g_1^4\,LF_{5,-2}\left[m_{\tilde d}^p\right]\delta_{i1i2}\,\delta_{i3i4} -$$

$$\frac{3}{2}\,s_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_d}^{pr}\,y_d^{pr}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(-s_{2\gamma}\,c_\gamma + s_\gamma^3\right) LF_{1,0}\left[m_{\tilde d}^r\right] -$$

$$\frac{1}{4}\sum_p s_\gamma\,g_1^2\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(2\,s_{2\gamma}\,c_\gamma + s_\gamma\,c_{2\gamma}\right) LF_{1,0}\left[m_{\tilde e}^p\right] + \frac{2}{9}\sum_p g_1^4\,LF_{3,0}\left[m_{\tilde e}^p\right]\delta_{i1i2}\,\delta_{i3i4} -$$

$$\frac{5}{12}\sum_p g_1^4\,LF_{4,-1}\left[m_{\tilde e}^p\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{8}{45}\sum_p g_1^4\,LF_{5,-2}\left[m_{\tilde e}^p\right]\delta_{i1i2}\,\delta_{i3i4} -$$

$$\frac{1}{2}\,s_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{pr}\,\overline{y_e}^{i2i3}\,y_e^{pr}\,y_e^{i1i4}\left(-s_{2\gamma}\,c_\gamma + s_\gamma^3\right) LF_{1,0}\left[m_{\tilde e}^r\right] +$$

$$\frac{1}{4}\,s_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(2\,\overline{y_e}^{pr}\,y_e^{pr}\left(s_{2\gamma}\,c_\gamma - s_\gamma^3\right) + \sum_p g_1^2\left(2\,s_{2\gamma}\,c_\gamma + s_\gamma\,c_{2\gamma}\right)\right) LF_{1,0}\left[m_{\tilde l}^p\right] +$$

$$\frac{1}{9}\sum_p g_1^4\,LF_{3,0}\left[m_{\tilde l}^p\right]\delta_{i1i2}\,\delta_{i3i4} - \frac{5}{24}\sum_p g_1^4\,LF_{4,-1}\left[m_{\tilde l}^p\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{4}{45}\sum_p g_1^4\,LF_{5,-2}\left[m_{\tilde l}^p\right]\delta_{i1i2}\,\delta_{i3i4} - \frac{1}{4}\,s_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}$$

$$\left(6\,\overline{y_d}^{pr}\,y_d^{pr}\left(-s_{2\gamma}\,c_\gamma + s_\gamma^3\right) + 6\,c_\gamma\,\overline{y_u}^{pr}\,y_u^{pr}\left(s_{2\gamma} + s_\gamma\,c_\gamma\right) + \sum_p g_1^2\left(2\,s_{2\gamma}\,c_\gamma + s_\gamma\,c_{2\gamma}\right)\right)$$

$$LF_{1,0}\left[m_{\tilde q}^p\right] + \frac{1}{27}\sum_p g_1^4\,LF_{3,0}\left[m_{\tilde q}^p\right]\delta_{i1i2}\,\delta_{i3i4} -$$

$$\frac{5}{72}\sum_p g_1^4\,LF_{4,-1}\left[m_{\tilde q}^p\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{4}{135}\sum_p g_1^4\,LF_{5,-2}\left[m_{\tilde q}^p\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{1}{2}\sum_p s_\gamma\,g_1^2\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(2\,s_{2\gamma}\,c_\gamma + s_\gamma\,c_{2\gamma}\right) LF_{1,0}\left[m_{\tilde u}^p\right] + \frac{8}{27}\sum_p g_1^4\,LF_{3,0}\left[m_{\tilde u}^p\right]\delta_{i1i2}\,\delta_{i3i4} -$$

$$\frac{5}{9}\sum_p g_1^4\,LF_{4,-1}\left[m_{\tilde u}^p\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{32}{135}\sum_p g_1^4\,LF_{5,-2}\left[m_{\tilde u}^p\right]\delta_{i1i2}\,\delta_{i3i4} -$$

$$\frac{3}{2}\,s_\gamma\,c_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,\overline{y_u}^{pr}\,y_u^{pr}\left(s_{2\gamma} + s_\gamma\,c_\gamma\right) LF_{1,0}\left[m_{\tilde u}^r\right] - \frac{1}{8}\,s_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}$$

$$\left(3\,s_{4\gamma}\,c_\gamma\left(g_1^2+g_2^2\right) + s_\gamma\left(g_1^2\left(-1+3\,c_{2\gamma}^2\right) + 3\,g_2^2\left(-1+c_{2\gamma}^2\right)\right)\right) LF_{1,0}\left[m_\Phi\right] +$$

$$\frac{1}{8}\,\frac{1}{m_\Phi^2}\left(3\,s_\gamma^4\,\overline{y_e}^{pr}\,\overline{y_e}^{i2i3}\,y_e^{pi4}\,y_e^{i1r} + s_\gamma^2\,y_e^{i1i4}\left(-2\,\overline{y_e}^{i2i3}\left(g_1^2+3\,g_2^2\right) + 3\,s_\gamma^2\,\overline{y_e}^{ri3}\,\overline{y_e}^{i2p}\,y_e^{rp}\right)\right)$$

$$LF_{1,1}\left[m_\Phi\right] + \frac{1}{24}\,s_\gamma^2\left(3\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(g_1^2+3\,g_2^2\right) - 4\,g_1^2\,\overline{y_e}^{pi3}\,y_e^{pi4}\,\delta_{i1i2} -\right.$$

$$\left.4\,\overline{y_e}^{i2p}\,y_e^{i1p}\left(3\,c_\gamma^2\,\overline{y_e}^{ri3}\,y_e^{ri4} + 2\,g_1^2\,\delta_{i3i4}\right)\right) LF_{1,2}\left[m_\Phi\right] +$$

$$\frac{1}{12}\,s_\gamma^2\left(-g_1^2\,\overline{y_e}^{pi3}\,y_e^{pi4}\,\delta_{i1i2} + \overline{y_e}^{i2p}\,y_e^{i1p}\left(-3\,s_\gamma^2\,\overline{y_e}^{ri3}\,y_e^{ri4} + g_1^2\,\delta_{i3i4}\right)\right) LF_{2,1}\left[m_\Phi\right] +$$

$$\frac{1}{36}\,g_1^2\left(3\,s_\gamma^2\,\overline{y_e}^{pi3}\,y_e^{pi4}\,\delta_{i1i2} + \left(-3\,s_\gamma^2\,\overline{y_e}^{i2p}\,y_e^{i1p} + 4\,g_1^2\,\delta_{i1i2}\right)\delta_{i3i4}\right) LF_{3,0}\left[m_\Phi\right] -$$

$$\frac{5}{24}\,g_1^4\,LF_{4,-1}\left[m_\Phi\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{4}{45}\,g_1^4\,LF_{5,-2}\left[m_\Phi\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{1}{9}\,g_1^4\,LF_{3,0}\left[\tilde\mu\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{1}{6}\,g_1^4\,LF_{4,-1}\left[\tilde\mu\right]\delta_{i1i2}\,\delta_{i3i4} -$$

$$\frac{8}{45}\,g_1^4\,LF_{5,-2}\left[\tilde\mu\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{1}{2}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,0}\left[m_1, m_{\tilde e}^{i3}\right] -$$

$$\frac{1}{4}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,1,-1}\left[m_1, m_{\tilde e}^{i3}\right] + \frac{1}{2}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,0}\left[m_1, m_{\tilde e}^{i4}\right] -$$

$$\frac{1}{4}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,1,-1}\left[m_1, m_{\tilde e}^{i4}\right] + \frac{1}{6}\,g_1^4\,LF_{2,1,0}\left[m_1, m_{\tilde e}^{i4}\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{1}{6}\,g_1^4\,LF_{2,2,-1}\left[m_1, m_{\tilde e}^{i4}\right]\delta_{i1i2}\,\delta_{i3i4} - \frac{1}{3}\,g_1^4\,LF_{3,1,-1}\left[m_1, m_{\tilde e}^{i4}\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{1}{6}\,g_1^4\,LF_{4,1,-2}\left[m_1, m_{\tilde e}^{i4}\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{1}{8}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,0}\left[m_1, m_{\tilde l}^{i1}\right] -$$

$$\frac{1}{16}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,1,-1}\left[m_1, m_{\tilde l}^{i1}\right] + \frac{1}{8}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,0}\left[m_1, m_{\tilde l}^{i2}\right] -$$

$$\frac{1}{16}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,1,-1}\left[m_1, m_{\tilde l}^{i2}\right] + \frac{1}{24}\,g_1^4\,LF_{2,1,0}\left[m_1, m_{\tilde l}^{i2}\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{1}{24}\,g_1^4\,LF_{2,2,-1}\left[m_1, m_{\tilde l}^{i2}\right]\delta_{i1i2}\,\delta_{i3i4} - \frac{1}{12}\,g_1^4\,LF_{3,1,-1}\left[m_1, m_{\tilde l}^{i2}\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{1}{24}\,g_1^4\,LF_{4,1,-2}\left[m_1, m_{\tilde l}^{i2}\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{1}{2}\,g_1^2\,\frac{1}{m_\Phi^4}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma^2+s_\gamma^2\right) LF_{1,1,-1}\left[m_1, \tilde\mu\right] +$$

$$m_1\,s_\gamma\,\tilde\mu\,c_\gamma\,g_1^2\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma^2-2\,s_\gamma^2\right) LF_{1,1,0}\left[m_1, \tilde\mu\right] +$$

$$\frac{3}{8}\,g_2^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,0}\left[m_2, m_{\tilde l}^{i1}\right] - \frac{3}{16}\,g_2^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,1,-1}\left[m_2, m_{\tilde l}^{i1}\right] +$$

$$\frac{3}{8}\,g_2^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,0}\left[m_2, m_{\tilde l}^{i2}\right] - \frac{3}{16}\,g_2^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,1,-1}\left[m_2, m_{\tilde l}^{i2}\right] +$$

$$\frac{1}{8}\,g_1^2\,g_2^2\,LF_{2,1,0}\left[m_2, m_{\tilde l}^{i2}\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{1}{8}\,g_1^2\,g_2^2\,LF_{2,2,-1}\left[m_2, m_{\tilde l}^{i2}\right]\delta_{i1i2}\,\delta_{i3i4} -$$

$$\frac{1}{4}\,g_1^2\,g_2^2\,LF_{3,1,-1}\left[m_2, m_{\tilde l}^{i2}\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{1}{8}\,g_1^2\,g_2^2\,LF_{4,1,-2}\left[m_2, m_{\tilde l}^{i2}\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{3}{2}\,g_2^2\,\frac{1}{m_\Phi^4}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma^2+s_\gamma^2\right) LF_{1,1,-1}\left[m_2, \tilde\mu\right] +$$

$$3\,m_2\,s_\gamma\,\tilde\mu\,c_\gamma\,g_2^2\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma^2-2\,s_\gamma^2\right) LF_{1,1,0}\left[m_2, \tilde\mu\right] +$$

$$\frac{3}{2}\,s_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(\tilde\mu\,c_\gamma\,\overline{y_d}^{pr}\left(a_d^{pr}\left(c_\gamma^2-2\,s_\gamma^2\right) - 3\,s_\gamma\,\tilde\mu\,c_\gamma\,y_d^{pr}\right) +\right.$$

$$\left.\overline{a_d}^{pr}\left(a_d^{pr}\left(2\,s_\gamma\,c_\gamma^2 - s_\gamma^3\right) + \tilde\mu\,c_\gamma\,y_d^{pr}\left(c_\gamma^2-2\,s_\gamma^2\right)\right)\right) LF_{1,1,0}\left[m_{\tilde d}^r, m_{\tilde q}^p\right] +$$

$$\frac{1}{4}\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{ri3}\,\overline{y_e}^{i2p}\,y_e^{rp}\,y_e^{i1i4}\,LF_{1,1,0}\left[m_{\tilde e}^p, \tilde\mu\right] - \frac{1}{3}\,g_1^2\,\overline{y_e}^{i2p}\,y_e^{i1p}\,LF_{2,1,0}\left[m_{\tilde e}^p, \tilde\mu\right]\delta_{i3i4} +$$

$$\frac{1}{6}\,g_1^2\,\overline{y_e}^{i2p}\,y_e^{i1p}\,LF_{2,2,-1}\left[m_{\tilde e}^p, \tilde\mu\right]\delta_{i3i4} + \frac{1}{6}\,g_1^2\,\overline{y_e}^{i2p}\,y_e^{i1p}\,LF_{3,1,-1}\left[m_{\tilde e}^p, \tilde\mu\right]\delta_{i3i4} +$$

$$\frac{1}{2}\,s_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(\tilde\mu\,c_\gamma\,\overline{y_e}^{pr}\left(a_e^{pr}\left(c_\gamma^2-2\,s_\gamma^2\right) - 3\,s_\gamma\,\tilde\mu\,c_\gamma\,y_e^{pr}\right) +\right.$$

$$\left.\overline{a_e}^{pr}\left(a_e^{pr}\left(2\,s_\gamma\,c_\gamma^2 - s_\gamma^3\right) + \tilde\mu\,c_\gamma\,y_e^{pr}\left(c_\gamma^2-2\,s_\gamma^2\right)\right)\right) LF_{1,1,0}\left[m_{\tilde e}^r, m_{\tilde l}^p\right] +$$

$$\frac{1}{4}\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{pr}\,\overline{y_e}^{i2i3}\,y_e^{pi4}\,y_e^{i1r}\,LF_{1,1,0}\left[m_{\tilde e}^r, \tilde\mu\right] - \frac{1}{3}\,g_1^4\,LF_{2,1,0}\left[m_{\tilde e}^{i4}, m_1\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{1}{6}\,g_1^4\,LF_{3,1,-1}\left[m_{\tilde e}^{i4}, m_1\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{1}{2}\,s_\gamma\,c_\gamma\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}$$

$$\left(\tilde\mu\,\overline{y_e}^{pr}\left(a_e^{pr}\left(-c_\gamma^2+s_\gamma^2\right) + 2\,s_\gamma\,\tilde\mu\,c_\gamma\,y_e^{pr}\right) + \overline{a_e}^{pr}\left(-2\,s_\gamma\,c_\gamma\,a_e^{pr} + \tilde\mu\,y_e^{pr}\left(-c_\gamma^2+s_\gamma^2\right)\right)\right)$$

$$LF_{2,1,0}\left[m_{\tilde l}^p, m_{\tilde e}^r\right] + \frac{1}{2}\,s_\gamma\,c_\gamma\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(\tilde\mu\,\overline{y_e}^{pr}\left(a_e^{pr}\left(c_\gamma^2-s_\gamma^2\right) - 2\,s_\gamma\,\tilde\mu\,c_\gamma\,y_e^{pr}\right) +\right.$$

$$\left.\overline{a_e}^{pr}\left(2\,s_\gamma\,c_\gamma\,a_e^{pr} + \tilde\mu\,y_e^{pr}\left(c_\gamma^2-s_\gamma^2\right)\right)\right) LF_{3,1,-1}\left[m_{\tilde l}^p, m_{\tilde e}^r\right] -$$

$$\frac{1}{2}\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma\,\overline{a_e}^{pr} - s_\gamma\,\tilde\mu\,\overline{y_e}^{pr}\right)\left(c_\gamma\,a_e^{pr} - s_\gamma\,\tilde\mu\,y_e^{pr}\right) LF_{3,1,0}\left[m_{\tilde l}^p, m_{\tilde e}^r\right] +$$

$$\frac{3}{2}\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma\,\overline{a_e}^{pr} - s_\gamma\,\tilde\mu\,\overline{y_e}^{pr}\right)\left(c_\gamma\,a_e^{pr} - s_\gamma\,\tilde\mu\,y_e^{pr}\right) LF_{4,1,-1}\left[m_{\tilde l}^p, m_{\tilde e}^r\right] -$$

$$c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma\,\overline{a_e}^{pr} - s_\gamma\,\tilde\mu\,\overline{y_e}^{pr}\right)\left(c_\gamma\,a_e^{pr} - s_\gamma\,\tilde\mu\,y_e^{pr}\right) LF_{5,1,-2}\left[m_{\tilde l}^p, m_{\tilde e}^r\right] +$$

$$\frac{1}{2}\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{pr}\,\overline{y_e}^{i2i3}\,y_e^{pi4}\,y_e^{i1r}\,LF_{1,1,0}\left[m_{\tilde l}^p, \tilde\mu\right] - \frac{1}{6}\,g_1^2\,\overline{y_e}^{pi3}\,y_e^{pi4}\,LF_{2,1,0}\left[m_{\tilde l}^p, \tilde\mu\right]\delta_{i1i2} +$$

$$\frac{1}{12}\,g_1^2\,\overline{y_e}^{pi3}\,y_e^{pi4}\,LF_{2,2,-1}\left[m_{\tilde l}^p, \tilde\mu\right]\delta_{i1i2} + \frac{1}{12}\,g_1^2\,\overline{y_e}^{pi3}\,y_e^{pi4}\,LF_{3,1,-1}\left[m_{\tilde l}^p, \tilde\mu\right]\delta_{i1i2} +$$

$$\frac{1}{2}\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{ri3}\,\overline{y_e}^{i2p}\,y_e^{rp}\,y_e^{i1i4}\,LF_{1,1,0}\left[m_{\tilde l}^r, \tilde\mu\right] - \frac{1}{12}\,g_1^4\,LF_{2,1,0}\left[m_{\tilde l}^{i2}, m_1\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{1}{24}\,g_1^4\,LF_{3,1,-1}\left[m_{\tilde l}^{i2}, m_1\right]\delta_{i1i2}\,\delta_{i3i4} - \frac{1}{4}\,g_1^2\,g_2^2\,LF_{2,1,0}\left[m_{\tilde l}^{i2}, m_2\right]\delta_{i1i2}\,\delta_{i3i4} +$$

$$\frac{1}{8}\,g_1^2\,g_2^2\,LF_{3,1,-1}\left[m_{\tilde l}^{i2}, m_2\right]\delta_{i1i2}\,\delta_{i3i4} + \frac{3}{2}\,s_\gamma\,c_\gamma\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}$$

$$\left(\tilde\mu\,\overline{y_d}^{pr}\left(a_d^{pr}\left(-c_\gamma^2+s_\gamma^2\right) + 2\,s_\gamma\,\tilde\mu\,c_\gamma\,y_d^{pr}\right) + \overline{a_d}^{pr}\left(-2\,s_\gamma\,c_\gamma\,a_d^{pr} + \tilde\mu\,y_d^{pr}\left(-c_\gamma^2+s_\gamma^2\right)\right)\right)$$

$$LF_{2,1,0}\left[m_{\tilde q}^p, m_{\tilde d}^r\right] + \frac{3}{2}\,s_\gamma\,c_\gamma\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(\tilde\mu\,\overline{y_d}^{pr}\left(a_d^{pr}\left(c_\gamma^2-s_\gamma^2\right) - 2\,s_\gamma\,\tilde\mu\,c_\gamma\,y_d^{pr}\right) +\right.$$

$$\left.\overline{a_d}^{pr}\left(2\,s_\gamma\,c_\gamma\,a_d^{pr} + \tilde\mu\,y_d^{pr}\left(c_\gamma^2-s_\gamma^2\right)\right)\right) LF_{3,1,-1}\left[m_{\tilde q}^p, m_{\tilde d}^r\right] -$$

$$\frac{3}{2}\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma\,\overline{a_d}^{pr} - s_\gamma\,\tilde\mu\,\overline{y_d}^{pr}\right)\left(c_\gamma\,a_d^{pr} - s_\gamma\,\tilde\mu\,y_d^{pr}\right) LF_{3,1,0}\left[m_{\tilde q}^p, m_{\tilde d}^r\right] +$$

$$\frac{9}{2}\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma\,\overline{a_d}^{pr} - s_\gamma\,\tilde\mu\,\overline{y_d}^{pr}\right)\left(c_\gamma\,a_d^{pr} - s_\gamma\,\tilde\mu\,y_d^{pr}\right) LF_{4,1,-1}\left[m_{\tilde q}^p, m_{\tilde d}^r\right] -$$

$$3\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma\,\overline{a_d}^{pr} - s_\gamma\,\tilde\mu\,\overline{y_d}^{pr}\right)\left(c_\gamma\,a_d^{pr} - s_\gamma\,\tilde\mu\,y_d^{pr}\right) LF_{5,1,-2}\left[m_{\tilde q}^p, m_{\tilde d}^r\right] +$$

$$\frac{3}{2}\,s_\gamma\,\frac{1}{m_\Phi^4}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma\,\overline{a_u}^{pr}\left(-3\,s_\gamma\,c_\gamma\,a_u^{pr} + \tilde\mu\,y_u^{pr}\left(c_\gamma^2-2\,s_\gamma^2\right)\right) + \tilde\mu\,\overline{y_u}^{pr}\right.$$

$$\left.\left(a_u^{pr}\left(c_\gamma^3-2\,c_\gamma\,s_\gamma^2\right) - s_\gamma\,\tilde\mu\,y_u^{pr}\left(-2\,c_\gamma^2+s_\gamma^2\right)\right)\right) LF_{1,1,0}\left[m_{\tilde q}^p, m_{\tilde u}^r\right] + \frac{3}{2}\,s_\gamma\,c_\gamma\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}$$

$$y_e^{i1i4}\left(\tilde\mu\,\overline{y_u}^{pr}\left(a_u^{pr}\left(-c_\gamma^2+s_\gamma^2\right) - 2\,s_\gamma\,\tilde\mu\,c_\gamma\,y_u^{pr}\right) + \overline{a_u}^{pr}\left(2\,s_\gamma\,c_\gamma\,a_u^{pr} + \tilde\mu\,y_u^{pr}\left(-c_\gamma^2+s_\gamma^2\right)\right)\right)$$

$$LF_{2,1,0}\left[m_{\tilde u}^r, m_{\tilde q}^p\right] + \frac{3}{2}\,s_\gamma\,c_\gamma\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(\tilde\mu\,\overline{y_u}^{pr}\left(a_u^{pr}\left(c_\gamma^2-s_\gamma^2\right) + 2\,s_\gamma\,\tilde\mu\,c_\gamma\,y_u^{pr}\right) +\right.$$

$$\left.\overline{a_u}^{pr}\left(-2\,s_\gamma\,c_\gamma\,a_u^{pr} + \tilde\mu\,y_u^{pr}\left(c_\gamma^2-s_\gamma^2\right)\right)\right) LF_{3,1,-1}\left[m_{\tilde u}^r, m_{\tilde q}^p\right] -$$

$$\frac{3}{2}\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(-s_\gamma\,\overline{a_u}^{pr} + \tilde\mu\,c_\gamma\,\overline{y_u}^{pr}\right)\left(-s_\gamma\,a_u^{pr} + \tilde\mu\,c_\gamma\,y_u^{pr}\right) LF_{3,1,0}\left[m_{\tilde u}^r, m_{\tilde q}^p\right] +$$

$$\frac{9}{2}\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(-s_\gamma\,\overline{a_u}^{pr} + \tilde\mu\,c_\gamma\,\overline{y_u}^{pr}\right)\left(-s_\gamma\,a_u^{pr} + \tilde\mu\,c_\gamma\,y_u^{pr}\right) LF_{4,1,-1}\left[m_{\tilde u}^r, m_{\tilde q}^p\right] -$$

$$3\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(-s_\gamma\,\overline{a_u}^{pr} + \tilde\mu\,c_\gamma\,\overline{y_u}^{pr}\right)\left(-s_\gamma\,a_u^{pr} + \tilde\mu\,c_\gamma\,y_u^{pr}\right) LF_{5,1,-2}\left[m_{\tilde u}^r, m_{\tilde q}^p\right] +$$

$$m_1\,s_\gamma\,\tilde\mu\,c_\gamma\,g_1^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(-c_\gamma^2+s_\gamma^2\right) LF_{2,1,0}\left[\tilde\mu, m_1\right] +$$

$$c_\gamma\,g_1^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma\,m_\Phi^2\left(c_\gamma^2+s_\gamma^2\right) + m_1\,s_\gamma\,\tilde\mu\left(c_\gamma^2-s_\gamma^2\right)\right) LF_{3,1,-1}\left[\tilde\mu, m_1\right] +$$

$$m_1\,s_\gamma\,\tilde\mu\,g_1^2\,c_\gamma^3\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{3,1,0}\left[\tilde\mu, m_1\right] - 2\,g_1^2\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma^2+s_\gamma^2\right) LF_{4,1,-2}\left[\tilde\mu, m_1\right] -$$

$$3\,m_1\,s_\gamma\,\tilde\mu\,g_1^2\,c_\gamma^3\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{4,1,-1}\left[\tilde\mu, m_1\right] +$$

$$g_1^2\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma^2+s_\gamma^2\right) LF_{5,1,-3}\left[\tilde\mu, m_1\right] + 2\,m_1\,s_\gamma\,\tilde\mu\,g_1^2\,c_\gamma^3\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{5,1,-2}\left[\tilde\mu, m_1\right] +$$

$$3\,m_2\,s_\gamma\,\tilde\mu\,c_\gamma\,g_2^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(-c_\gamma^2+s_\gamma^2\right) LF_{2,1,0}\left[\tilde\mu, m_2\right] +$$

$$3\,c_\gamma\,g_2^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma\,m_\Phi^2\left(c_\gamma^2+s_\gamma^2\right) + m_2\,s_\gamma\,\tilde\mu\left(c_\gamma^2-s_\gamma^2\right)\right) LF_{3,1,-1}\left[\tilde\mu, m_2\right] +$$

$$3\,m_2\,s_\gamma\,\tilde\mu\,g_2^2\,c_\gamma^3\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{3,1,0}\left[\tilde\mu, m_2\right] -$$

$$6\,g_2^2\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\left(c_\gamma^2+s_\gamma^2\right) LF_{4,1,-2}\left[\tilde\mu, m_2\right] -$$

$$9\,m_2\,s_\gamma\,\tilde\mu\,g_2^2\,c_\gamma^3\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{4,1,-1}\left[\tilde\mu, m_2\right] + 3\,g_2^2\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}$$

$$\left(c_\gamma^2+s_\gamma^2\right) LF_{5,1,-3}\left[\tilde\mu, m_2\right] + 6\,m_2\,s_\gamma\,\tilde\mu\,g_2^2\,c_\gamma^3\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{5,1,-2}\left[\tilde\mu, m_2\right] -$$

$$\frac{1}{8}\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{ri3}\,\overline{y_e}^{i2p}\,y_e^{rp}\,y_e^{i1i4}\,LF_{2,1,-1}\left[\tilde\mu, m_{\tilde e}^p\right] + \frac{1}{6}\,g_1^2\,\overline{y_e}^{i2p}\,y_e^{i1p}\,LF_{2,1,0}\left[\tilde\mu, m_{\tilde e}^p\right]\delta_{i3i4} -$$

$$\frac{1}{12}\,g_1^2\,\overline{y_e}^{i2p}\,y_e^{i1p}\,LF_{3,1,-1}\left[\tilde\mu, m_{\tilde e}^p\right]\delta_{i3i4} + \frac{1}{12}\,g_1^2\,\overline{y_e}^{i2p}\,y_e^{i1p}\,LF_{4,1,-2}\left[\tilde\mu, m_{\tilde e}^p\right]\delta_{i3i4} -$$

$$\frac{1}{8}\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{pr}\,\overline{y_e}^{i2i3}\,y_e^{pi4}\,y_e^{i1r}\,LF_{2,1,-1}\left[\tilde\mu, m_{\tilde e}^r\right] -$$

$$\frac{1}{4}\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{pr}\,\overline{y_e}^{i2i3}\,y_e^{pi4}\,y_e^{i1r}\,LF_{2,1,-1}\left[\tilde\mu, m_{\tilde l}^p\right] +$$

$$\frac{1}{12}\,g_1^2\,\overline{y_e}^{pi3}\,y_e^{pi4}\,LF_{2,1,0}\left[\tilde\mu, m_{\tilde l}^p\right]\delta_{i1i2} - \frac{5}{12}\,g_1^2\,\overline{y_e}^{pi3}\,y_e^{pi4}\,LF_{3,1,-1}\left[\tilde\mu, m_{\tilde l}^p\right]\delta_{i1i2} +$$

$$\frac{1}{6}\,g_1^2\,\overline{y_e}^{pi3}\,y_e^{pi4}\,LF_{4,1,-2}\left[\tilde\mu, m_{\tilde l}^p\right]\delta_{i1i2} - \frac{1}{4}\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{ri3}\,\overline{y_e}^{i2p}\,y_e^{rp}\,y_e^{i1i4}\,LF_{2,1,-1}\left[\tilde\mu, m_{\tilde l}^r\right] -$$

$$\frac{1}{2}\,m_1\,s_\gamma\,g_1^2\,\frac{1}{m_\Phi^2}\,y_e^{i1i4}\left(s_\gamma\,\overline{a_e}^{i2i3} + \tilde\mu\,c_\gamma\,\overline{y_e}^{i2i3}\right) LF_{1,1,1,0}\left[m_1, m_{\tilde e}^{i3}, m_{\tilde l}^{i2}\right] +$$

$$\frac{1}{8}\,m_1\,c_\gamma\,g_1^2\,y_e^{i1i4}\left(c_\gamma\,\overline{a_e}^{i2i3} - s_\gamma\,\tilde\mu\,\overline{y_e}^{i2i3}\right) LF_{2,2,1,-1}\left[m_1, m_{\tilde e}^{i3}, m_{\tilde l}^{i2}\right] -$$

$$\frac{1}{2}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,-1}\left[m_1, m_{\tilde e}^{i3}, \tilde\mu\right] +$$

$$\frac{1}{2}\,m_1\,s_\gamma\,\tilde\mu\,c_\gamma\,g_1^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,0}\left[m_1, m_{\tilde e}^{i3}, \tilde\mu\right] -$$

$$\frac{1}{2}\,m_1\,s_\gamma\,g_1^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\left(s_\gamma\,a_e^{i1i4} + \tilde\mu\,c_\gamma\,y_e^{i1i4}\right) LF_{1,1,1,0}\left[m_1, m_{\tilde e}^{i4}, m_{\tilde l}^{i1}\right] +$$

$$\frac{1}{8}\,m_1\,c_\gamma\,g_1^2\,\overline{y_e}^{i2i3}\left(c_\gamma\,a_e^{i1i4} - s_\gamma\,\tilde\mu\,y_e^{i1i4}\right) LF_{2,2,1,-1}\left[m_1, m_{\tilde e}^{i4}, m_{\tilde l}^{i1}\right] -$$

$$\frac{1}{4}\,g_1^4\,LF_{2,1,1,-1}\left[m_1, m_{\tilde e}^{i4}, m_{\tilde l}^{i2}\right]\delta_{i1i2}\,\delta_{i3i4} - \frac{1}{2}\,g_1^4\,m_1^2\,LF_{2,1,1,0}\left[m_1, m_{\tilde e}^{i4}, m_{\tilde l}^{i2}\right]\delta_{i1i2}\,\delta_{i3i4} -$$

$$\frac{1}{2}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,-1}\left[m_1, m_{\tilde e}^{i4}, \tilde\mu\right] +$$

$$\frac{1}{2}\,m_1\,s_\gamma\,\tilde\mu\,c_\gamma\,g_1^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,0}\left[m_1, m_{\tilde e}^{i4}, \tilde\mu\right] +$$

$$\frac{1}{8}\,m_1\,c_\gamma\,g_1^2\,\overline{y_e}^{i2i3}\left(c_\gamma\,a_e^{i1i4} - s_\gamma\,\tilde\mu\,y_e^{i1i4}\right) LF_{2,2,1,-1}\left[m_1, m_{\tilde l}^{i1}, m_{\tilde e}^{i4}\right] +$$

$$\frac{1}{4}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,-1}\left[m_1, m_{\tilde l}^{i1}, \tilde\mu\right] -$$

$$\frac{1}{4}\,m_1\,s_\gamma\,\tilde\mu\,c_\gamma\,g_1^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,0}\left[m_1, m_{\tilde l}^{i1}, \tilde\mu\right] +$$

$$\frac{1}{8}\,m_1\,c_\gamma\,g_1^2\,y_e^{i1i4}\left(c_\gamma\,\overline{a_e}^{i2i3} - s_\gamma\,\tilde\mu\,\overline{y_e}^{i2i3}\right) LF_{2,2,1,-1}\left[m_1, m_{\tilde l}^{i2}, m_{\tilde e}^{i3}\right] +$$

$$\frac{1}{4}\,g_1^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,-1}\left[m_1, m_{\tilde l}^{i2}, \tilde\mu\right] -$$

$$\frac{1}{4}\,m_1\,s_\gamma\,\tilde\mu\,c_\gamma\,g_1^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,0}\left[m_1, m_{\tilde l}^{i2}, \tilde\mu\right] -$$

$$\frac{1}{4}\,g_1^2\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-2}\left[m_1, \tilde\mu, m_{\tilde e}^{i3}\right] -$$

$$\frac{1}{4}\,m_1\,s_\gamma\,\tilde\mu\,c_\gamma\,g_1^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-1}\left[m_1, \tilde\mu, m_{\tilde e}^{i3}\right] -$$

$$\frac{1}{4}\,g_1^2\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-2}\left[m_1, \tilde\mu, m_{\tilde e}^{i4}\right] -$$

$$\frac{1}{4}\,m_1\,s_\gamma\,\tilde\mu\,c_\gamma\,g_1^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-1}\left[m_1, \tilde\mu, m_{\tilde e}^{i4}\right] +$$

$$\frac{1}{8}\,g_1^2\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-2}\left[m_1, \tilde\mu, m_{\tilde l}^{i1}\right] +$$

$$\frac{1}{8}\,m_1\,s_\gamma\,\tilde\mu\,c_\gamma\,g_1^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-1}\left[m_1, \tilde\mu, m_{\tilde l}^{i1}\right] +$$

$$\frac{1}{8}\,g_1^2\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-2}\left[m_1, \tilde\mu, m_{\tilde l}^{i2}\right] +$$

$$\frac{1}{8}\,m_1\,s_\gamma\,\tilde\mu\,c_\gamma\,g_1^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-1}\left[m_1, \tilde\mu, m_{\tilde l}^{i2}\right] -$$

$$\frac{3}{4}\,g_2^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,-1}\left[m_2, m_{\tilde l}^{i1}, \tilde\mu\right] +$$

$$\frac{3}{4}\,m_2\,s_\gamma\,\tilde\mu\,c_\gamma\,g_2^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,0}\left[m_2, m_{\tilde l}^{i1}, \tilde\mu\right] -$$

$$\frac{3}{4}\,g_2^2\,\frac{1}{m_\Phi^2}\,s_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,-1}\left[m_2, m_{\tilde l}^{i2}, \tilde\mu\right] +$$

$$\frac{3}{4}\,m_2\,s_\gamma\,\tilde\mu\,c_\gamma\,g_2^2\,\frac{1}{m_\Phi^2}\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,0}\left[m_2, m_{\tilde l}^{i2}, \tilde\mu\right] -$$

$$\frac{3}{8}\,g_2^2\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-2}\left[m_2, \tilde\mu, m_{\tilde l}^{i1}\right] -$$

$$\frac{3}{8}\,m_2\,s_\gamma\,\tilde\mu\,c_\gamma\,g_2^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-1}\left[m_2, \tilde\mu, m_{\tilde l}^{i1}\right] -$$

$$\frac{3}{8}\,g_2^2\,c_\gamma^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-2}\left[m_2, \tilde\mu, m_{\tilde l}^{i2}\right] -$$

$$\frac{3}{8}\,m_2\,s_\gamma\,\tilde\mu\,c_\gamma\,g_2^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{2,2,1,-1}\left[m_2, \tilde\mu, m_{\tilde l}^{i2}\right] +$$

$$\frac{1}{4}\,m_1\,c_\gamma\,g_1^2\,y_e^{i1i4}\left(-c_\gamma\,\overline{a_e}^{i2i3} + s_\gamma\,\tilde\mu\,\overline{y_e}^{i2i3}\right) LF_{2,1,1,0}\left[m_{\tilde e}^{i3}, m_1, m_{\tilde l}^{i2}\right] +$$

$$\frac{1}{4}\,m_1\,c_\gamma\,g_1^2\,y_e^{i1i4}\left(c_\gamma\,\overline{a_e}^{i2i3} - s_\gamma\,\tilde\mu\,\overline{y_e}^{i2i3}\right) LF_{3,1,1,-1}\left[m_{\tilde e}^{i3}, m_1, m_{\tilde l}^{i2}\right] +$$

$$\frac{1}{4}\,m_1\,c_\gamma\,g_1^2\,\overline{y_e}^{i2i3}\left(-c_\gamma\,a_e^{i1i4} + s_\gamma\,\tilde\mu\,y_e^{i1i4}\right) LF_{2,1,1,0}\left[m_{\tilde e}^{i4}, m_1, m_{\tilde l}^{i1}\right] +$$

$$\frac{1}{4}\,m_1\,c_\gamma\,g_1^2\,\overline{y_e}^{i2i3}\left(c_\gamma\,a_e^{i1i4} - s_\gamma\,\tilde\mu\,y_e^{i1i4}\right) LF_{3,1,1,-1}\left[m_{\tilde e}^{i4}, m_1, m_{\tilde l}^{i1}\right] +$$

$$\frac{1}{4}\,m_1\,c_\gamma\,g_1^2\,\overline{y_e}^{i2i3}\left(-c_\gamma\,a_e^{i1i4} + s_\gamma\,\tilde\mu\,y_e^{i1i4}\right) LF_{2,1,1,0}\left[m_{\tilde l}^{i1}, m_1, m_{\tilde e}^{i4}\right] +$$

$$\frac{1}{4}\,m_1\,c_\gamma\,g_1^2\,\overline{y_e}^{i2i3}\left(c_\gamma\,a_e^{i1i4} - s_\gamma\,\tilde\mu\,y_e^{i1i4}\right) LF_{3,1,1,-1}\left[m_{\tilde l}^{i1}, m_1, m_{\tilde e}^{i4}\right] +$$

$$\frac{1}{4}\,m_1\,c_\gamma\,g_1^2\,y_e^{i1i4}\left(-c_\gamma\,\overline{a_e}^{i2i3} + s_\gamma\,\tilde\mu\,\overline{y_e}^{i2i3}\right) LF_{2,1,1,0}\left[m_{\tilde l}^{i2}, m_1, m_{\tilde e}^{i3}\right] +$$

$$\frac{1}{4}\,m_1\,c_\gamma\,g_1^2\,y_e^{i1i4}\left(c_\gamma\,\overline{a_e}^{i2i3} - s_\gamma\,\tilde\mu\,\overline{y_e}^{i2i3}\right) LF_{3,1,1,-1}\left[m_{\tilde l}^{i2}, m_1, m_{\tilde e}^{i3}\right] -$$

$$\frac{1}{4}\,\overline{y_e}^{ri3}\,\overline{y_e}^{i2p}\,y_e^{ri4}\,y_e^{i1p}\,LF_{2,1,1,-1}\left[\tilde\mu, m_{\tilde e}^p, m_{\tilde l}^r\right] -$$

$$\frac{1}{4}\,g_1^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,1,-1}\left[m_1, m_{\tilde e}^{i3}, m_{\tilde l}^{i1}, \tilde\mu\right] +$$

$$\frac{1}{2}\,g_1^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,1,-1}\left[m_1, m_{\tilde e}^{i4}, m_{\tilde e}^{i3}, \tilde\mu\right] -$$

$$\frac{1}{4}\,g_1^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,1,-1}\left[m_1, m_{\tilde e}^{i4}, m_{\tilde l}^{i2}, \tilde\mu\right] +$$

$$\frac{1}{8}\,g_1^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,1,-1}\left[m_1, m_{\tilde l}^{i2}, m_{\tilde l}^{i1}, \tilde\mu\right] +$$

$$\left.\frac{3}{8}\,g_2^2\,\overline{y_e}^{i2i3}\,y_e^{i1i4}\,LF_{1,1,1,1,-1}\left[m_2, m_{\tilde l}^{i2}, m_{\tilde l}^{i1}, \tilde\mu\right]\right)$$