$$C_{qe}^{i1\_i2\_i3\_i4\_} \to$$

$$\hbar \left(\frac{1}{216} \frac{1}{m_\oplus^2} \left(s_\gamma^2 \overline{y_e}^{pi3} y_e^{pi4} \left(-54\, c_\gamma^2 \overline{y_u}^{i2r} y_u^{i1r} + 5\, g_1^2 \delta_{i1i2} \right) + 13\, g_1^2 c_\gamma^2 \overline{y_u}^{i2p} y_u^{i1p} \delta_{i3i4} - s_\gamma^2 \overline{y_d}^{i2p} y_d^{i1p} \left(54\, c_\gamma^2 \overline{y_e}^{ri3} y_e^{ri4} + 5\, g_1^2 \delta_{i3i4} \right) \right) - \frac{2}{81} \sum_p g_1^4 \, LF_{3,0}\left[m_{\tilde{d}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} + \frac{5}{108} \sum_p g_1^4 \, LF_{4,-1}\left[m_{\tilde{d}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} - \frac{8}{405} \sum_p g_1^4 \, LF_{5,-2}\left[m_{\tilde{d}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} - \frac{2}{27} \sum_p g_1^4 \, LF_{3,0}\left[m_{\tilde{e}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} + \frac{5}{36} \sum_p g_1^4 \, LF_{4,-1}\left[m_{\tilde{e}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} - \frac{8}{135} \sum_p g_1^4 \, LF_{5,-2}\left[m_{\tilde{e}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{27} \sum_p g_1^4 \, LF_{3,0}\left[m_{\tilde{l}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} + \frac{5}{72} \sum_p g_1^4 \, LF_{4,-1}\left[m_{\tilde{l}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} - \frac{4}{135} \sum_p g_1^4 \, LF_{5,-2}\left[m_{\tilde{l}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{81} \sum_p g_1^4 \, LF_{3,0}\left[m_{\tilde{q}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} + \frac{5}{216} \sum_p g_1^4 \, LF_{4,-1}\left[m_{\tilde{q}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} - \frac{4}{405} \sum_p g_1^4 \, LF_{5,-2}\left[m_{\tilde{q}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} - \frac{8}{81} \sum_p g_1^4 \, LF_{3,0}\left[m_{\tilde{u}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} + \frac{5}{27} \sum_p g_1^4 \, LF_{4,-1}\left[m_{\tilde{u}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} - \frac{32}{405} \sum_p g_1^4 \, LF_{5,-2}\left[m_{\tilde{u}}^{\,p}\right] \delta_{i1i2} \delta_{i3i4} + \frac{1}{18} \left(s_\gamma^2 \overline{y_e}^{pi3} y_e^{pi4} \left(-9\, c_\gamma^2 \overline{y_u}^{i2r} y_u^{i1r} + g_1^2 \delta_{i1i2} \right) + 4\, g_1^2 c_\gamma^2 \overline{y_u}^{i2p} y_u^{i1p} \delta_{i3i4} - s_\gamma^2 \overline{y_d}^{i2p} y_d^{i1p} \left(9\, c_\gamma^2 \overline{y_e}^{ri3} y_e^{ri4} + 2\, g_1^2 \delta_{i3i4} \right) \right) LF_{1,2}[m_\oplus] + \frac{1}{36} \left(s_\gamma^2 \overline{y_e}^{pi3} y_e^{pi4} \left(9\, c_\gamma^2 \overline{y_u}^{i2r} y_u^{i1r} + g_1^2 \delta_{i1i2} \right) - 3\, g_1^2 c_\gamma^2 \overline{y_u}^{i2p} y_u^{i1p} \delta_{i3i4} + 3\, s_\gamma^2 \overline{y_d}^{i2p} y_d^{i1p} \left(-3\, s_\gamma^2 \overline{y_e}^{ri3} y_e^{ri4} + g_1^2 \delta_{i3i4} \right) \right) LF_{2,1}[m_\oplus] - \frac{1}{108} g_1^2 \left(3\, s_\gamma^2 \overline{y_e}^{pi3} y_e^{pi4} \delta_{i1i2} + \left(9\, s_\gamma^2 \overline{y_d}^{i2p} y_d^{i1p} - 9\, c_\gamma^2 \overline{y_u}^{i2p} y_u^{i1p} + 4\, g_1^2 \delta_{i1i2} \right) \delta_{i3i4} \right) LF_{3,0}[m_\oplus] + \frac{5}{72} g_1^4 \, LF_{4,-1}[m_\oplus] \delta_{i1i2} \delta_{i3i4} - \frac{4}{135} g_1^4 \, LF_{5,-2}[m_\oplus] \delta_{i1i2} \delta_{i3i4} - \frac{1}{27} g_1^4 \, LF_{3,0}[\tilde{\mu}] \delta_{i1i2} \delta_{i3i4} - \frac{1}{18} g_1^4 \, LF_{4,-1}[\tilde{\mu}] \delta_{i1i2} \delta_{i3i4} + \frac{8}{135} g_1^4 \, LF_{5,-2}[\tilde{\mu}] \delta_{i1i2} \delta_{i3i4} - \frac{1}{18} g_1^4 \, LF_{2,1,0}\left[m_1, m_{\tilde{e}}^{\,i4}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{18} g_1^4 \, LF_{2,2,-1}\left[m_1, m_{\tilde{e}}^{\,i4}\right] \delta_{i1i2} \delta_{i3i4} + \frac{1}{9} g_1^4 \, LF_{3,1,-1}\left[m_1, m_{\tilde{e}}^{\,i4}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{18} g_1^4 \, LF_{4,1,-2}\left[m_1, m_{\tilde{e}}^{\,i4}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{648} g_1^4 \, LF_{2,1,0}\left[m_1, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{648} g_1^4 \, LF_{2,2,-1}\left[m_1, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} + \frac{1}{324} g_1^4 \, LF_{3,1,-1}\left[m_1, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{648} g_1^4 \, LF_{4,1,-2}\left[m_1, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{24} g_1^2 g_2^2 \, LF_{2,1,0}\left[m_2, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{24} g_1^2 g_2^2 \, LF_{2,2,-1}\left[m_2, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} + \frac{1}{12} g_1^2 g_2^2 \, LF_{3,1,-1}\left[m_2, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{24} g_1^2 g_2^2 \, LF_{4,1,-2}\left[m_2, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{2}{27} g_1^2 g_3^2 \, LF_{2,1,0}\left[m_3, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{2}{27} g_1^2 g_3^2 \, LF_{2,2,-1}\left[m_3, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} + \frac{4}{27} g_1^2 g_3^2 \, LF_{3,1,-1}\left[m_3, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{2}{27} g_1^2 g_3^2 \, LF_{4,1,-2}\left[m_3, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{9} g_1^2 \overline{y_d}^{i2p} y_d^{i1p} \, LF_{2,1,0}\left[m_{\tilde{d}}^{\,p}, \tilde{\mu}\right] \delta_{i3i4} + \frac{1}{18} g_1^2 \overline{y_d}^{i2p} y_d^{i1p} \, LF_{2,2,-1}\left[m_{\tilde{d}}^{\,p}, \tilde{\mu}\right] \delta_{i3i4} + \frac{1}{18} g_1^2 \overline{y_d}^{i2p} y_d^{i1p} \, LF_{3,1,-1}\left[m_{\tilde{d}}^{\,p}, \tilde{\mu}\right] \delta_{i3i4} + \frac{1}{9} g_1^4 \, LF_{2,1,0}\left[m_{\tilde{e}}^{\,i4}, m_1\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{18} g_1^4 \, LF_{3,1,-1}\left[m_{\tilde{e}}^{\,i4}, m_1\right] \delta_{i1i2} \delta_{i3i4} + \frac{1}{18} 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}{36} 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}{36} 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}{324} g_1^4 \, LF_{2,1,0}\left[m_{\tilde{q}}^{\,i2}, m_1\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{648} g_1^4 \, LF_{3,1,-1}\left[m_{\tilde{q}}^{\,i2}, m_1\right] \delta_{i1i2} \delta_{i3i4} + \frac{1}{12} g_1^2 g_2^2 \, LF_{2,1,0}\left[m_{\tilde{q}}^{\,i2}, m_2\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{24} g_1^2 g_2^2 \, LF_{3,1,-1}\left[m_{\tilde{q}}^{\,i2}, m_2\right] \delta_{i1i2} \delta_{i3i4} + \frac{4}{27} g_1^2 g_3^2 \, LF_{2,1,0}\left[m_{\tilde{q}}^{\,i2}, m_3\right] \delta_{i1i2} \delta_{i3i4} - \frac{2}{27} g_1^2 g_3^2 \, LF_{3,1,-1}\left[m_{\tilde{q}}^{\,i2}, m_3\right] \delta_{i1i2} \delta_{i3i4} + \frac{2}{9} g_1^2 \overline{y_u}^{i2p} y_u^{i1p} \, LF_{2,1,0}\left[m_{\tilde{u}}^{\,p}, \tilde{\mu}\right] \delta_{i3i4} - \frac{1}{9} g_1^2 \overline{y_u}^{i2p} y_u^{i1p} \, LF_{2,2,-1}\left[m_{\tilde{u}}^{\,p}, \tilde{\mu}\right] \delta_{i3i4} - \frac{1}{9} g_1^2 \overline{y_u}^{i2p} y_u^{i1p} \, LF_{3,1,-1}\left[m_{\tilde{u}}^{\,p}, \tilde{\mu}\right] \delta_{i3i4} + \frac{1}{18} g_1^2 \overline{y_d}^{i2p} y_d^{i1p} \, LF_{2,1,0}\left[\tilde{\mu}, m_{\tilde{d}}^{\,p}\right] \delta_{i3i4} + \frac{5}{36} g_1^2 \overline{y_d}^{i2p} y_d^{i1p} \, LF_{3,1,-1}\left[\tilde{\mu}, m_{\tilde{d}}^{\,p}\right] \delta_{i3i4} - \frac{1}{36} g_1^2 \overline{y_d}^{i2p} y_d^{i1p} \, LF_{4,1,-2}\left[\tilde{\mu}, m_{\tilde{d}}^{\,p}\right] \delta_{i3i4} - \frac{1}{36} 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}{36} 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}{18} 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}{9} g_1^2 \overline{y_u}^{i2p} y_u^{i1p} \, LF_{2,1,0}\left[\tilde{\mu}, m_{\tilde{u}}^{\,p}\right] \delta_{i3i4} - \frac{1}{36} g_1^2 \overline{y_u}^{i2p} y_u^{i1p} \, LF_{3,1,-1}\left[\tilde{\mu}, m_{\tilde{u}}^{\,p}\right] \delta_{i3i4} - \frac{1}{36} g_1^2 \overline{y_u}^{i2p} y_u^{i1p} \, LF_{4,1,-2}\left[\tilde{\mu}, m_{\tilde{u}}^{\,p}\right] \delta_{i3i4} - \frac{1}{36} g_1^4 \, LF_{2,1,1,-1}\left[m_1, m_{\tilde{e}}^{\,i4}, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{18} g_1^4 m_1^2 \, LF_{2,1,1,0}\left[m_1, m_{\tilde{e}}^{\,i4}, m_{\tilde{q}}^{\,i2}\right] \delta_{i1i2} \delta_{i3i4} - \frac{1}{4} \overline{y_d}^{i2p} y_d^{i1p} \overline{y_e}^{ri3} y_e^{ri4} \, LF_{2,1,1,-1}\left[\tilde{\mu}, m_{\tilde{d}}^{\,p}, m_{\tilde{l}}^{\,r}\right] - \frac{1}{2} \tilde{\mu}^2 \overline{y_e}^{pi3} y_e^{pi4} \overline{y_u}^{i2r} y_u^{i1r} \, LF_{2,1,1,0}\left[\tilde{\mu}, m_{\tilde{l}}^{\,p}, m_{\tilde{u}}^{\,r}\right] \right)$$