```
C_{\text{Hl}}^{(3)\,\text{il}-\text{i2}-} \rightarrow \hbar \, \left( -\, \frac{1}{144} \, \, \frac{1}{\text{m}_{\text{o}}^2} \, \, \text{S}_{\text{y}}^{\, 2} \, \overline{\text{y}_{\text{e}}}^{\, \text{i2p}} \, \left( \, \text{g}_{\text{2}}^{\, 2} \, \, \text{y}_{\text{e}}^{\, \text{i1p}} + 12 \, \, \text{c}_{\text{y}}^{\, 2} \, \, \overline{\text{y}_{\text{e}}}^{\, \text{rs}} \, \, \text{y}_{\text{e}}^{\, \text{rls}} \right) \, + \, \frac{1}{9} \, \, \text{g}_{\text{2}}^{\, 4} \, \, \text{LF}_{3,0} \, [\, \text{m}_{\text{2}} \, ] \, \, \delta_{\text{ili2}} \, + \, \frac{1}{2} \, \, \text{Tr}_{3,0} \, [\, \text{m}_{\text{2}} \, ] \, \, \delta_{\text{ili2}} \, + \, \frac{1}{2} \, \, \text{Tr}_{3,0} \, [\, \text{m}_{\text{2}} \, ] \, \, \delta_{\text{ili2}} \, + \, \frac{1}{2} \, \, \text{Tr}_{3,0} \, [\, \text{m}_{\text{2}} \, ] \, \, \delta_{\text{ili2}} \, + \, \frac{1}{2} \, \, \text{Tr}_{3,0} \, [\, \text{m}_{\text{2}} \, ] \, \, \delta_{\text{ili2}} \, + \, \frac{1}{2} \, \, \text{Tr}_{3,0} \, [\, \text{m}_{\text{2}} \, ] \, \, \delta_{\text{ili2}} \, + \, \frac{1}{2} \, \, \text{Tr}_{3,0} \, [\, \text{m}_{\text{2}} \, ] \, \, \delta_{\text{ili2}} \, + \, \frac{1}{2} \, \, \delta_{\text{ili2}} 
                                                                                                                                                                                 \frac{1}{6} \ {g_2}^4 \ \mathsf{LF_{4,-1}} \big[ \ \mathsf{m_2} \big] \ \delta_{\mathsf{ili2}} - \frac{8}{45} \ {g_2}^4 \ \mathsf{LF_{5,-2}} \big[ \ \mathsf{m_2} \big] \ \delta_{\mathsf{ili2}} + \frac{1}{18} \sum_{p} g_2^4 \ \mathsf{LF_{3,0}} \Big[ \ \mathsf{m_{\tilde{l}}}^p \Big] \ \delta_{\mathsf{ili2}} - \frac{1}{18} \left[ \ \mathsf{m_{\tilde{l}}}^p \right] \ \delta_{\mathsf{ili2}} - \frac{1}{18} 
                                                                                                                                                                                 \frac{5}{48} \sum_{p} g_{2}{}^{4} \, \mathsf{LF}_{4,-1} \big[ \mathsf{m}_{\bar{1}}{}^{p} \big] \, \, \delta_{\texttt{ili2}} + \frac{2}{45} \sum_{p} g_{2}{}^{4} \, \mathsf{LF}_{5,-2} \big[ \mathsf{m}_{\bar{1}}{}^{p} \big] \, \, \delta_{\texttt{ili2}} + \frac{1}{6} \sum_{p} g_{2}{}^{4} \, \mathsf{LF}_{3,0} \big[ \mathsf{m}_{\bar{q}}{}^{p} \big] \, \, \delta_{\texttt{ili2}} - \frac{1}{6} \left[ \mathsf{m}_{\bar{1}}{}^{p} \right] \, \, \delta_{\texttt{ili2}} + \frac{1}{6} \left[ \mathsf{m}_{\bar{1}}{}^{p} \right] \, \, \delta_{\texttt{ili
                                                                                                                                                                                 \frac{5}{16} \, \sum_{p} \, g_{2}{}^{4} \, \mathsf{LF_{4,-1}} \big[ \, \mathsf{m_{\tilde{q}}}^{\, p} \big] \, \, \delta_{\mathsf{ili2}} \, + \, \frac{2}{15} \, \sum_{p} \, g_{2}{}^{4} \, \mathsf{LF_{5,-2}} \big[ \, \mathsf{m_{\tilde{q}}}^{\, p} \big] \, \, \delta_{\mathsf{ili2}} \, - \, \frac{1}{24} \, g_{2}{}^{2} \, \, \mathsf{S_{\gamma}}^{2} \, \, \overline{\mathsf{y_{e}}}^{\mathsf{i2p}} \, \, \mathsf{y_{e}}^{\mathsf{i1p}} \, \, \mathsf{LF_{2,1}} \big[ \, \mathsf{m_{\Phi}} \big] \, + \, \frac{1}{24} \, \, \mathsf{m_{\Phi}} \big[ \, \mathsf{m_{\Phi}} \big] \, \, \mathsf{m_{\Phi}} \, \, \mathsf{m_{\Phi}} \, \, \mathsf{m_{\Phi}} \, 
                                                                                                                                                                                 \frac{1}{72} \left( 3 \; {g_2}^2 \; {s_{\gamma}}^2 \; \overline{y_e}^{i2p} \; {y_e}^{i1p} + 4 \; {g_2}^4 \; \delta_{i1i2} \right) \; \mathsf{LF}_{3,0} \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; - \; \frac{5}{48} \; {g_2}^4 \; \mathsf{LF}_{4,-1} \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \delta_{i1i2} \; + \; \frac{1}{12} \; \left[ \mathsf{m}_{\scriptscriptstyle{\oplus}} \right] \; \delta_{i1i2} \; + \; \frac{1}{12} \; \delta_{i1i2} \; + \; 
                                                                                                                                                                           \frac{2}{45} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\mathsf{m}_{\bar{\Phi}}] \ \delta_{\mathtt{ili2}} + \frac{1}{18} \ g_2{}^4 \ \mathsf{LF}_{3,0} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{4,-1} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} - \frac{4}{45} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2} \ [\tilde{\mu}] \ \delta_{\mathtt{ili2}} + \frac{1}{12} \ g_2{}^4 \ \mathsf{LF}_{5,-2
                                                                                                                                                                                                                      g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,0}\!\left[\,m_{1}\,,\,m_{e}^{\;p}\,\right]\,-\,g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,-1}\!\left[\,m_{1}\,,\,m_{\tilde{e}}^{\;p}\,\right]\,+\,g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,-1}\!\left[\,m_{1}\,,\,m_{\tilde{e}}^{\;p}\,\right]\,+\,g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,-1}\!\left[\,m_{1}\,,\,m_{\tilde{e}}^{\;p}\,\right]\,+\,g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,-1}\!\left[\,m_{1}\,,\,m_{\tilde{e}}^{\;p}\,\right]\,+\,g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,-1}\!\left[\,m_{1}\,,\,m_{\tilde{e}}^{\;p}\,\right]\,+\,g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,-1}\!\left[\,m_{1}\,,\,m_{\tilde{e}}^{\;p}\,\right]\,+\,g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}
                                                                                                                                                                                 \frac{1}{2} \; \mathsf{g_1}^2 \; \mathsf{c_{\gamma}}^2 \; \overline{\mathsf{y_e}}^{\mathsf{i2p}} \; \mathsf{y_e}^{\mathsf{i1p}} \; \mathsf{LF_{4,1,-2}} \big[ \, \mathsf{m_1}, \; \mathsf{m_e}^{\mathsf{p}} \big] \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; \mathsf{LF_{2,1,0}} \big[ \, \mathsf{m_1}, \; \mathsf{m_{\tilde{1}}}^{\mathsf{i2}} \big] \; \delta_{\mathsf{i1i2}} \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; \mathsf{g_2}^2 \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; + \; \frac{1}{48} \; \mathsf{g_1}^2 \; + \; \frac{1}{48} \; \mathsf{g_2}^2 \; + \; \frac{1}{48} \; + \; \frac{1}{48} \; \mathsf{g_2}^2 \; + \; \frac{1}{48} \; + \; \frac{1}{48} \; + \; \frac{1}{48} \; + \; \frac
                                                                                                                                                                                 \frac{1}{48}\; {g_{1}}^{2}\; {g_{2}}^{2}\; \mathsf{LF}_{2,2,-1}\big[\, \mathsf{m}_{1}\,,\,\, \mathsf{m}_{\tilde{l}}^{-\dot{1}\dot{2}}\,\big]\; \delta_{\dot{1}\dot{1}\dot{1}\dot{2}} - \frac{1}{24}\; {g_{1}}^{2}\; {g_{2}}^{2}\; \mathsf{LF}_{3,1,-1}\big[\, \mathsf{m}_{1}\,,\,\, \mathsf{m}_{\tilde{l}}^{-\dot{1}\dot{2}}\,\big]\; \delta_{\dot{1}\dot{1}\dot{1}\dot{2}} + \frac{1}{24}\; {g_{1}}^{2}\; {g_{2}}^{2}\; \mathsf{LF}_{3,1,-1}\big[\, \mathsf{m}_{1}\,,\,\,\, \mathsf{m}_{\tilde{l}}^{-\dot{1}\dot{2}}\,\big]\; \delta_{\dot{1}\dot{1}\dot{1}\dot{1}\dot{2}} + \frac{1}{24}\; {g_{1}}^{2}\; {g_{1}}^{2}\; {g_{2}}^{2}\; \mathsf{LF}_{3,1,-1}\big[\, \mathsf{m}_{1}\,,\,\,\, \mathsf{m}_{\tilde{l}}^{-\dot{1}\dot{2}}\,\big]\; \delta_{\dot{1}\dot{1}\dot{1}\dot{1}\dot{2}} + \frac{1}{24}\; {g_{1}}^{2}\; {g_{2}}^{2}\; {g_{2}}^{2}\; \mathsf{LF}_{3,1,-1}\big[\, \mathsf{m}_{1}\,,\,\,\, \mathsf{m}_{\tilde{l}}^{\dot{1}\dot{2}}\,\big]\; \delta_{\dot{1}\dot{1}\dot{1}\dot{2}} + \frac{1}{24}\; {g_{1}}^{2}\; {g_{2}}^{2}\; {g_{2}}^{2}\; \mathsf{LF}_{3,1,-1}\big[\, \mathsf{m}_{1}\,,\,\,\, \mathsf{m}_{\tilde{l}}^{\dot{1}\dot{2}}\,\big]\; \delta_{\dot{1}\dot{1}\dot{1}\dot{2}} + \frac{1}{24}\; {g_{1}}^{2}\; {g_{2}}^{2}\; {g_{2}}^{2
                                                                                                                                                                                 \frac{1}{3}\;g_{2}^{\;4}\;\left(c_{\gamma}^{\;2}+s_{\gamma}^{\;2}\right)\;\mathsf{LF}_{2,1,0}\left[\mathsf{m}_{2}\,,\,\widetilde{\mu}\right]\;\delta_{\mathsf{1112}}-\frac{1}{3}\;g_{2}^{\;4}\;\left(c_{\gamma}^{\;2}+s_{\gamma}^{\;2}\right)\;\mathsf{LF}_{2,2,-1}\left[\mathsf{m}_{2}\,,\,\widetilde{\mu}\right]\;\delta_{\mathsf{1112}}-\frac{1}{3}\;g_{2}^{\;4}\left(c_{\gamma}^{\;2}+s_{\gamma}^{\;2}\right)\;\mathsf{LF}_{2,2,-1}\left[\mathsf{m}_{2}\,,\,\widetilde{\mu}\right]\;\delta_{\mathsf{1112}}-\frac{1}{3}\;g_{2}^{\;4}\left(c_{\gamma}^{\;2}+s_{\gamma}^{\;2}\right)\;\mathsf{LF}_{2,2,-1}\left[\mathsf{m}_{2}\,,\,\widetilde{\mu}\right]\;\delta_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1}{3}\;g_{\mathsf{1112}}-\frac{1
                                                                                                                                                                           \frac{2}{3} \text{ m}_{2} \text{ s}_{\gamma} \, \widetilde{\mu} \text{ c}_{\gamma} \, g_{2}^{\phantom{2}4} \text{ LF}_{2,2,0} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{s}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{s}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \text{LF}_{3,1,-1} [\text{m}_{2}, \, \widetilde{\mu}] \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}2}\right) \, \delta_{\text{ili}2} + \frac{1}{6} \, g_{2}^{\phantom{2}4} \, \left(\text{c}_{\gamma}^{\phantom{\gamma}2} + \text{c}_{\gamma}^{\phantom{\gamma}
                                                                                                                                                                                 \frac{1}{6}~g_{2}^{~4}~\left(c_{\gamma}^{~2}+s_{\gamma}^{~2}\right)~\mathsf{LF}_{3,2,-2}[~\mathsf{m}_{2},~\widetilde{\mu}]~\delta_{\texttt{ili}2}+\frac{1}{3}~\mathsf{m}_{2}~s_{\gamma}~\widetilde{\mu}~c_{\gamma}~g_{2}^{~4}~\mathsf{LF}_{3,2,-1}[~\mathsf{m}_{2},~\widetilde{\mu}]~\delta_{\texttt{ili}2}+\frac{1}{3}
                                                                                                                                                                                                                            {\rm g_2}^2 \, \left( {\rm c_{\scriptscriptstyle Y}} \, \overline{{\rm a_e}}^{\rm pr} - {\rm s_{\scriptscriptstyle Y}} \, \widetilde{\mu} \, \overline{{\rm y_e}}^{\rm pr} \right) \, \left( {\rm c_{\scriptscriptstyle Y}} \, {\rm a_e}^{\rm pr} - {\rm s_{\scriptscriptstyle Y}} \, \widetilde{\mu} \, {\rm y_e}^{\rm pr} \right) \, {\rm LF_{5,1,-2}} \big[ \, {\rm m_{\tilde{l}}}^{\rm p} \, , \, {\rm m_{\tilde{e}}}^{\rm r} \big] \, \, \delta_{\rm ili2} - {\rm in_{\tilde{l}}}^{\rm p} \, , \, {\rm m_{\tilde{e}}}^{\rm r} \, , \, {\rm m_{\tilde{e}}}^{\rm
                                                                                                                                                                           \frac{1}{24}~g_{1}^{2}~g_{2}^{2}~\mathsf{LF}_{2,1,0}\big[\,\mathsf{m}_{\bar{l}}^{-\dot{1}2}\,,\,\,\mathsf{m}_{1}\,\big]~\delta_{\dot{1}\dot{1}\dot{1}2}\,+\,\frac{1}{48}~g_{1}^{2}~g_{2}^{2}~\mathsf{LF}_{3,1,-1}\big[\,\mathsf{m}_{\bar{l}}^{-\dot{1}2}\,,\,\,\mathsf{m}_{1}\,\big]~\delta_{\dot{1}\dot{1}\dot{1}2}\,+\,\frac{1}{48}\,g_{1}^{2}~g_{2}^{2}\,\mathsf{LF}_{3,1,-1}\big[\,\mathsf{m}_{\bar{l}}^{-\dot{1}2}\,,\,\,\mathsf{m}_{1}\,\big]~\delta_{\dot{1}\dot{1}\dot{1}2}\,+\,\frac{1}{48}\,g_{1}^{2}\,g_{2}^{2}\,\mathsf{LF}_{3,1,-1}\big[\,\mathsf{m}_{\bar{l}}^{-\dot{1}2}\,,\,\,\mathsf{m}_{1}\,\big]
                                                                                                                                                                                 \frac{1}{24}~{g_2}^4~{\mathsf{LF}_{2,1,0}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]~\delta_{\dot{1}\dot{1}\dot{1}2}\,-\,\frac{1}{48}~{g_2}^4~{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]~\delta_{\dot{1}\dot{1}\dot{1}2}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]~\delta_{\dot{1}\dot{1}\dot{1}2}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}2}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}2}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}2}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}2}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}\dot{1}}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}^{\dot{1}}\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,{\mathsf{LF}_{3,1,-1}}\big[\,{\mathsf{m}_{\tilde{l}}}\,\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\big]\,\delta_{\dot{1}\dot{1}\dot{1}\dot{1}}\,+\,\frac{1}{48}\,{g_2}^4\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}\,\,,\,{\mathsf{m}_2}
                                                                                                                                                                           \frac{3}{8}\;g_{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[\boldsymbol{m}_{\tilde{q}}^{\;p},\;\boldsymbol{m}_{\tilde{d}}^{\;r}\right]\;\delta_{\text{ili2}}-c_{1}^{2}\left[\boldsymbol{m}_{\tilde{q}}^{\;p},\;\boldsymbol{m}_{\tilde{d}}^{\;p}\right]\;\delta_{\text{ili2}}
                                                                                                                                                                                 \frac{1}{2}\;g_{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)\;\mathsf{LF_{5,1,-2}}\!\left[\mathsf{m_{\tilde{q}}}^{\;p},\;\mathsf{m_{\tilde{d}}}^{\;r}\right]\;\delta_{\texttt{ili2}}\;+
                                                                                                                                                                                                                            \mathbf{g_2}^2 \; \left( \mathbf{s_{\scriptscriptstyle Y}} \; \overline{\mathbf{a_u}}^{\text{pr}} - \widetilde{\boldsymbol{\mu}} \; \mathbf{c_{\scriptscriptstyle Y}} \; \overline{\mathbf{y_u}}^{\text{pr}} \right) \; \left( \mathbf{s_{\scriptscriptstyle Y}} \; \mathbf{a_u}^{\text{pr}} - \widetilde{\boldsymbol{\mu}} \; \mathbf{c_{\scriptscriptstyle Y}} \; \mathbf{y_u}^{\text{pr}} \right) \; \mathsf{LF_{2,2,0}} \left[ \, \mathbf{m_{\tilde{q}}}^{\text{p}} \, , \; \mathbf{m_{\tilde{u}}}^{\text{r}} \, \right] \; \delta_{\text{ili2}} - \widetilde{\boldsymbol{\mu}} \; \mathbf{c_{\scriptscriptstyle Y}} \; \mathbf{y_u}^{\text{pr}} \right] \; \delta_{\text{ili2}} - \widetilde{\boldsymbol{\mu}} \; \mathbf{c_{\scriptscriptstyle Y}} \; \mathbf{y_u}^{\text{pr}} \; \mathbf{c_{\scriptscriptstyle Y}} \; \mathbf{c_{
                                                                                                                                                                                 \frac{1}{8} \ g_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_{3,2,-1} \left[ m_{\tilde{q}}^{\ p}, \ m_{\tilde{u}}^{\ r} \right] \ \delta_{\text{ili2}} - \widetilde{a_u}^{pr} + \widetilde{a_u}^{pr} + \widetilde{a_u}^{pr} + \widetilde{a_u}^{pr} \right] \ \delta_{\text{ili2}} - \widetilde{a_u}^{pr} + \widetilde{a_
                                                                                                                                                                                 \frac{1}{4}~g_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)~\mathsf{LF_{3,1,0}}\left[\mathfrak{m}_{\tilde{u}}^{~r},~\mathfrak{m}_{\tilde{q}}^{~p}\right]~\delta_{\texttt{11i}2}-
                                                                                                                                                                                 \frac{1}{4}~g_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)~\mathsf{LF_{3,2,-1}}\!\left[\mathsf{m}_{\widetilde{u}}^{~r},~\mathsf{m}_{\widetilde{q}}^{~p}\right]~\delta_{\texttt{11i}2}~+
                                                                                                                                                                                 \frac{3}{4} \; g_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) \; \mathsf{LF_{4,1,-1}} \big[ \mathsf{m}_{\tilde{u}}^{\; r} \; , \; \mathsf{m}_{\tilde{q}}^{\; p} \big] \; \delta_{\texttt{11i2}} - \mathcal{M}_{\texttt{11i2}} \; \mathcal{M
                                                                                                                                                                                                                            g_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) \; \mathsf{LF_{5,1,-2}} \left[ \mathsf{m}_{\tilde{u}}^{\; r} \; , \; \mathsf{m}_{\tilde{q}}^{\; p} \right] \; \delta_{\text{11i2}} - \widetilde{h}_{\tilde{u}}^{\; r} \; , \; \widetilde{h}_{\tilde{q}}^{\; p} \; \widetilde{h}_{\tilde{q
                                                                                                                                                                                 rac{5}{24} \; {g_1}^2 \; {g_2}^2 \; \left( {c_{\gamma}}^2 + {s_{\gamma}}^2 
ight) \; {\sf LF_{4,1,-2}} \left[ \, \widetilde{\mu} \, , \; {\sf m_1} \, \right] \; \delta_{\it ili2} -
                                                                                                                                                                                                                            \frac{1}{3} \text{ m}_{1} \text{ s}_{\gamma} \, \widetilde{\mu} \text{ c}_{\gamma} \, \text{g}_{1}^{2} \, \text{g}_{2}^{2} \, \text{LF}_{5,1,-2} [\widetilde{\mu}, \, \text{m}_{1}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{g}_{2}^{4} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \text{LF}_{3,1,-1} [\widetilde{\mu}, \, \text{m}_{2}] \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \delta_{\text{ili}2} + \frac{2}{3} \, \text{m}_{2}^{2} \, \left(\text{c}_{\gamma}^{2} + \text{s}_{\gamma}^{2}\right) \, \delta_{\text{ili}2} + \frac{2}{3} \, \left(\text{c}_{\gamma}^{2} + \text{c}_{\gamma}^{2}\right) \, \delta_{\text{ili}2} + \frac{2}{3} \, \left(\text{c}_{\gamma}^{2} + \text{c}_{\gamma}^{2}\right) \, \delta_{\text{ili}2} + \frac{2}{3} \, \left(\text{c}_{\gamma
                                                                                                                                                                                                                            \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \tilde{\mu} \; \mathsf{c_{\gamma}} \; \mathsf{g_2}^4 \; \mathsf{LF_{3,1,0}} \left[ \tilde{\mu} \text{, } \mathsf{m_2} \right] \; \delta_{\text{ili2}} \; + \; \frac{1}{3} \; \mathsf{g_2}^4 \; \left( \mathsf{c_{\gamma}}^2 \; + \; \mathsf{s_{\gamma}}^2 \right) \; \mathsf{LF_{3,2,-2}} \left[ \tilde{\mu} \text{, } \mathsf{m_2} \right] \; \delta_{\text{ili2}} \; + \; \frac{1}{3} \; \mathsf{g_2}^4 \; \left( \mathsf{c_{\gamma}}^2 \; + \; \mathsf{s_{\gamma}}^2 \right) \; \mathsf{LF_{3,2,-2}} \left[ \tilde{\mu} \; + \; \mathsf{m_2} \right] \; \delta_{\text{ili2}} \; + \; \frac{1}{3} \; \mathsf{m_2} \; \mathsf{m
                                                                                                                                                                                 \frac{2}{3}\;\mathsf{m}_2\;\mathsf{s}_{\gamma}\;\tilde{\mu}\;\mathsf{c}_{\gamma}\;\mathsf{g_2}^4\;\mathsf{LF_{3,2,-1}}[\tilde{\mu}\,,\,\mathsf{m}_2]\;\delta_{\mathsf{1li}2} - \frac{9}{8}\;\mathsf{g_2}^4\;\left(\mathsf{c}_{\gamma}^{\;2} + \mathsf{s}_{\gamma}^{\;2}\right)\;\mathsf{LF_{4,1,-2}}[\tilde{\mu}\,,\,\mathsf{m}_2]\;\delta_{\mathsf{1li}2} - \frac{9}{8}\;\mathsf{g_2}^4\;\left(\mathsf{c}_{\gamma}^{\;2} + \mathsf{c}_{\gamma}^{\;2}\right)\;\mathsf{LF_{4,1,-2}}[\tilde{\mu}\,,\,\mathsf{m}_2]\;\delta_{\mathsf{1li}2} - \frac{9}{8}\;\mathsf{g_2}^4\;\left(\mathsf{c}_{\gamma}^{\;2} + \mathsf{c}_{\gamma}^{\;2}\right)\;\mathsf{LF_{4,1,-2}}[\tilde{\mu}\,,\,\mathsf{m}_2]\;\delta_{\mathsf{1li}2} - \frac{9}{8}\;\mathsf{g_2}^4\;\mathsf{LF_{4,1,-2}}[\tilde{\mu}\,,\,\mathsf{m}_2]\;\delta_{\mathsf{1li}2} - \frac{9}{8}\;\mathsf{g_2}^4\;\mathsf{LF_{4,1,-2}}[\tilde{\mu}\,,\,\mathsf{m}_2]\;\delta_{\mathsf{1li}2} - \frac{9}{8}\;\mathsf{l}_{\mathsf{1li}2} - \frac{9}{8}\;\mathsf{l}_{\mathsf{
                                                                                                                                                                                                                                 \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \mathsf{c_{\gamma}} \; \mathsf{g_2}^4 \; \mathsf{LF_{4,1,-1}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \left( \, \mathsf{c_{\gamma}}^2 \, + \, \mathsf{s_{\gamma}}^2 \, \right) \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \left( \, \mathsf{c_{\gamma}}^2 \, + \, \mathsf{s_{\gamma}}^2 \, \right) \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \left( \, \mathsf{c_{\gamma}}^2 \, + \, \mathsf{s_{\gamma}}^2 \, \right) \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \left( \, \mathsf{c_{\gamma}}^2 \, + \, \mathsf{s_{\gamma}}^2 \, \right) \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}} \, + \, \frac{1}{2} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-3}} [\, \widetilde{\mu} \, , \; \mathsf{m_2} \, ] \; \delta_{\texttt{ili2}}
                                                                                                                                                                 \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \tilde{\mu} \; \mathsf{c_{\gamma}} \; \mathsf{g_2}^4 \; \mathsf{LF_{5,1,-2}} \left[ \, \tilde{\mu} \, , \; \mathsf{m_2} \, \right] \; \delta_{\texttt{ili2}} \; - \; \frac{1}{8} \; \mathsf{g_2}^2 \; \overline{\mathsf{y_e}}^{\texttt{i2p}} \; \mathsf{y_e}^{\texttt{i1p}} \; \mathsf{LF_{3,1,-1}} \left[ \, \tilde{\mu} \, , \; \mathsf{m_e^-p} \, \right] \; + \; \frac{1}{8} \; \mathsf{g_2}^2 \; \overline{\mathsf{y_e}}^{\texttt{i2p}} \; \mathsf{y_e}^{\texttt{i1p}} \; \mathsf{LF_{3,1,-1}} \left[ \, \tilde{\mu} \, , \; \mathsf{m_e^-p} \, \right] \; + \; \frac{1}{8} \; \mathsf{g_2}^2 \; \overline{\mathsf{y_e}}^{\texttt{i2p}} \; \mathsf{y_e}^{\texttt{i2p}} \; \mathsf{y_e}^{\texttt{i2p}} \; \mathsf{LF_{3,1,-1}} \left[ \, \tilde{\mu} \, , \; \mathsf{m_e^-p} \, \right] \; + \; \frac{1}{8} \; \mathsf{g_2}^2 \; \overline{\mathsf{y_e}}^{\texttt{i2p}} \; \mathsf{y_e}^{\texttt{i2p}} \; \mathsf{J_{e}}^{\texttt{i2p}} 
                                                                                                                                                                                 \frac{1}{24}~g_2^2~\overline{y_e}^{i2p}~y_e^{i1p}~\mathsf{LF_{4,1,-2}}\big[\tilde{\mu}\,,\,\mathsf{m_{\tilde{e}}}^p\big] + \frac{1}{2}~c_{\gamma}^{~2}~\overline{y_e}^{rs}~\overline{y_e}^{i2p}~y_e^{~rp}~y_e^{~i1s}~\mathsf{LF_{2,1,0}}\big[\tilde{\mu}\,,\,\mathsf{m_{\tilde{l}}}^r\big] - \frac{1}{2}~c_{\gamma}^{~2}~\overline{y_e}^{rs}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}~y_e^{~rp}
                                                                                                                                                                      c_{\gamma}^{2}\,\overline{y_{e}}^{rs}\,\overline{y_{e}}^{i2p}\,y_{e}^{rp}\,y_{e}^{i1s}\,\mathsf{LF}_{3,1,-1}\!\left[\widetilde{\mu}\,,\,\mathfrak{m}_{\bar{l}}^{\,\,r}\right]\,+\,\frac{1}{2}\,\,c_{\gamma}^{2}\,\overline{y_{e}}^{rs}\,\overline{y_{e}}^{i2p}\,y_{e}^{\,\,rp}\,y_{e}^{\,\,i1s}\,\mathsf{LF}_{4,1,-2}\!\left[\widetilde{\mu}\,,\,\mathfrak{m}_{\bar{l}}^{\,\,r}\right]\,+\,\frac{1}{2}\,\,c_{\gamma}^{2}\,\overline{y_{e}}^{rs}\,\overline{y_{e}}^{i2p}\,y_{e}^{\,\,rp}\,y_{e}^{\,\,i1s}\,\mathsf{LF}_{4,1,-2}\!\left[\widetilde{\mu}\,,\,\mathfrak{m}_{\bar{l}}^{\,\,r}\right]\,+\,\frac{1}{2}\,\,c_{\gamma}^{2}\,\overline{y_{e}}^{\,\,rs}\,\overline{y_{e}}^{\,\,rs}\,\overline{y_{e}}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_{e}^{\,\,rs}\,y_
                                                                                                                                                                                                                            \textbf{m_{1}} \ \textbf{c_{\gamma}} \ \textbf{g_{1}}^{2} \ \overline{\textbf{y_{e}}}^{\text{i2p}} \ \left( - \, \textbf{c_{\gamma}} \ a_{e}^{\text{i1p}} + \, \textbf{s_{\gamma}} \ \widetilde{\boldsymbol{\mu}} \ \textbf{y_{e}}^{\text{i1p}} \right) \ \textbf{LF}_{\textbf{2,1,1,0}} \big[ \, \textbf{m_{1}} \, , \ \textbf{m_{\tilde{e}}}^{\, p} \, , \ \textbf{m_{\tilde{l}}}^{\, \text{i1}} \big] \ + \\
                                                                                                                                                                                 \frac{1}{16} \, \, m_{1} \, \, c_{\gamma} \, \, g_{1}^{\, 2} \, \, \overline{y_{e}}^{\, i2p} \, \left( - \, c_{\gamma} \, \, a_{e}^{\, i1p} + \, s_{\gamma} \, \widetilde{\mu} \, \, y_{e}^{\, i1p} \right) \, \, \mathsf{LF}_{2,2,1,-1} \big[ \, m_{1} \, , \, \, m_{\tilde{e}}^{\, p} \, , \, \, m_{\tilde{l}}^{\, i1} \big] \, + \, c_{\gamma} \, \, m_{1}^{\, i2p} \, \, \, m_{1}^{\, i2p} \, \, m_{1}^{
                                                                                                                                                                                                                      \mathsf{m_1}\;\mathsf{c_{\scriptscriptstyle Y}}\;\mathsf{g_1}^2\;\overline{\mathsf{y_e}}^{\mathsf{i2p}}\;\left(\mathsf{c_{\scriptscriptstyle Y}}\;\mathsf{a_e}^{\mathsf{i1p}}-\mathsf{s_{\scriptscriptstyle Y}}\;\widetilde{\boldsymbol{\mu}}\;\mathsf{y_e}^{\mathsf{i1p}}\right)\;\mathsf{LF_{3,1,1,-1}}\!\left[\mathsf{m_1}\;,\;\mathsf{m_{\tilde{e}}}^\mathsf{p}\;,\;\mathsf{m_{\tilde{l}}}^{\mathsf{i1}}\right]\;+
                                                                                                                                                                                 \frac{1}{8} \; m_1 \; c_{\gamma} \; g_1^{\; 2} \; y_e^{\; i1p} \; \left( - \, c_{\gamma} \; \overline{a_e}^{\; i2p} \, + \, s_{\gamma} \; \widetilde{\mu} \; \overline{y_e}^{\; i2p} \right) \; LF_{2,1,1,0} \left[ \, m_1 \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, \right] \; + \; c_{\gamma} \; \widetilde{\mu} \; \overline{y_e}^{\; i2p} \; .
                                                                                                                                                                                                                                                 \mathsf{m_1} \; \mathsf{c_{\gamma}} \; \mathsf{g_1}^2 \; \mathsf{y_e}^{\mathsf{ilp}} \; \left( - \, \mathsf{c_{\gamma}} \; \overline{\mathsf{a_e}}^{\mathsf{i2p}} + \, \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \overline{\mathsf{y_e}}^{\mathsf{i2p}} \right) \; \mathsf{LF_{2,2,1,-1}} \left[ \, \mathsf{m_1} \, , \; \mathsf{m_{\tilde{e}}}^p \, , \; \mathsf{m_{\tilde{l}}}^{\mathsf{i2}} \, \right] \; + \; \mathsf{m_{\tilde{l}}}^{\mathsf{i2p}} \; + \; \mathsf{s_{\tilde{l}}} \; \widetilde{\mathsf{y_e}}^{\mathsf{i2p}} \; + \; \mathsf{s_{\tilde{l}}} \; \widetilde{\mathsf{y_e}}^{\mathsf{i2p}} \right] \; + \; \mathsf{log} \;
                                                                                                                                                                                                                            \mathbf{m_1} \; \mathbf{c_{\gamma}} \; \mathbf{g_1}^2 \; \mathbf{y_e}^{\mathsf{ilp}} \; \left( \mathbf{c_{\gamma}} \; \overline{\mathbf{a_e}}^{\mathsf{i2p}} - \mathbf{s_{\gamma}} \; \widetilde{\boldsymbol{\mu}} \; \overline{\mathbf{y_e}}^{\mathsf{i2p}} \right) \; \mathsf{LF_{3,1,1,-1}} \big[ \mathbf{m_1}, \; \mathbf{m_{\tilde{e}}}^\mathsf{p}, \; \mathbf{m_{\tilde{l}}}^{\mathsf{i2}} \big] \; - \; \mathbf{m_{\tilde{l}}}^\mathsf{p} \; \mathbf{m_{\tilde{l}}}^\mathsf{p} \, \mathbf{m_{\tilde{l}}}^\mathsf{p}} \, \mathbf{m_{\tilde{l}}}^\mathsf{p} \, \mathbf{m_{\tilde{l}}}
                                                                                                                                                                                                                            g_{1}^{2} \; c_{\gamma}^{2} \; \overline{y_{e}^{i2p}} \; y_{e}^{i1p} \; \mathsf{LF}_{2,1,1,-1} \big[ \, \mathsf{m}_{1} \, , \; \mathsf{m}_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; - \; \frac{1}{2} \; \mathsf{m}_{1} \; s_{\gamma} \; \widetilde{\mu} \; c_{\gamma} \; g_{1}^{\; 2} \; \overline{y_{e}^{i2p}} \; y_{e}^{\; i1p} \; \mathsf{LF}_{2,1,1,0} \big[ \, \mathsf{m}_{1} \, , \; \mathsf{m}_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \frac{1}{2} \; \mathsf{m}_{1} \; s_{\gamma} \; \widetilde{\mu} \; c_{\gamma} \; g_{1}^{\; 2} \; \overline{y_{e}^{i2p}} \; y_{e}^{\; i1p} \; \mathsf{LF}_{2,1,1,0} \big[ \, \mathsf{m}_{1} \, , \; \mathsf{m}_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \frac{1}{2} \; \mathsf{m}_{1} \; s_{\gamma} \; \widetilde{\mu} \; c_{\gamma} \; g_{1}^{\; 2} \; \overline{y_{e}^{i2p}} \; y_{e}^{\; i1p} \; \mathsf{LF}_{2,1,1,0} \big[ \, \mathsf{m}_{1} \, , \; \mathsf{m}_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \frac{1}{2} \; \mathsf{m}_{1} \; s_{\gamma} \; \widetilde{\mu} \; c_{\gamma} \; g_{1}^{\; 2} \; \overline{y_{e}^{i2p}} \; y_{e}^{\; i1p} \; \mathsf{LF}_{2,1,1,0} \big[ \, \mathsf{m}_{1} \, , \; \mathsf{m}_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \frac{1}{2} \; \mathsf{m}_{1} \; s_{\gamma} \; \widetilde{\mu} \; s_{\gamma} \; 
                                                                                                                                                                                 \frac{1}{2}\;g_{1}^{\;2}\;c_{\gamma}^{\;2}\;\overline{y_{e}}^{\text{i2p}}\;y_{e}^{\;\text{i1p}}\;\mathsf{LF}_{3,1,1,-2}\!\left[\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{e}}^{\;p}\,,\,\,\widetilde{\mu}\,\right]\,+\,\frac{1}{2}\;\mathsf{m}_{1}\;s_{\gamma}\;\widetilde{\mu}\;c_{\gamma}\;g_{1}^{\;2}\;\overline{y_{e}}^{\text{i2p}}\;y_{e}^{\;\text{i1p}}\;\mathsf{LF}_{3,1,1,-1}\!\left[\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{e}}^{\;p}\,,\,\,\widetilde{\mu}\,\right]\,+\,\frac{1}{2}\;\mathsf{m}_{1}^{\;2}\;s_{\gamma}\;\widetilde{\mu}\;c_{\gamma}^{\;2}\;g_{1}^{\;2}\;\overline{y_{e}}^{\text{i2p}}\;y_{e}^{\;\text{i1p}}\;\mathsf{LF}_{3,1,1,-1}\!\left[\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{e}}^{\;p}\,,\,\,\widetilde{\mu}\,\right]\,+\,\frac{1}{2}\;\mathsf{m}_{1}^{\;2}\;s_{\gamma}^{\;2}\;\widetilde{\mu}^{\;2}\;s_{\gamma}^{\;2}\;g_{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_{\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_{\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_{\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_{\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_{\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_{\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_{\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_{\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_{\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_{\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_{\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_{\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}
                                                                                                                                                                                                                                                 \mathbf{m_1} \; \mathbf{c_{\gamma}} \; \mathbf{g_1}^2 \; \overline{\mathbf{y_e}}^{\mathtt{i2p}} \; \left( \mathbf{c_{\gamma}} \; \mathbf{a_e}^{\mathtt{i1p}} - \mathbf{s_{\gamma}} \; \widetilde{\boldsymbol{\mu}} \; \mathbf{y_e}^{\mathtt{i1p}} \right) \; \mathsf{LF_{2,2,1,-1}} \big[ \, \mathbf{m_1} \, , \; \mathbf{m_{\tilde{l}}}^{\mathtt{i1}} \, , \; \mathbf{m_{\tilde{e}}}^{\mathtt{p}} \big] \; + \; \mathsf{m_{\tilde{l}}}^{\mathtt{p}} \; \mathsf{m_{\tilde{l}}}^{\mathtt{p}} \; \mathsf{m_{\tilde{l}}}^{\mathtt{p}} \; \mathsf{m_{\tilde{l}}}^{\mathtt{p}} \, \mathsf{
                                                                                                                                                                                                                                                 \mathsf{m_1} \; \mathsf{c_{\scriptscriptstyle Y}} \; \mathsf{g_1}^2 \; \mathsf{y_e}^{\mathsf{i1p}} \; \left( \mathsf{c_{\scriptscriptstyle Y}} \; \overline{\mathsf{a_e}}^{\mathsf{i2p}} - \mathsf{s_{\scriptscriptstyle Y}} \; \widetilde{\mu} \; \overline{\mathsf{y_e}}^{\mathsf{i2p}} \right) \; \mathsf{LF_{2,2,1,-1}} \big[ \mathsf{m_1} \, , \; \mathsf{m_{\scriptscriptstyle \widetilde{1}}}^{\mathsf{i2}} \, , \; \mathsf{m_{\scriptscriptstyle \widetilde{e}}}^{\mathsf{p}} \big] \; + \; \mathsf{m_{\scriptscriptstyle \widetilde{1}}}^{\mathsf{p}} \; \mathsf{m_{\scriptscriptstyle \widetilde{1}}}^{\mathsf{p}} \, , \; \mathsf{m_{\scriptscriptstyle \mathsf{p}}}^{\mathsf{p}} \, , \; \mathsf{m_{\scriptscriptstyle \mathsf{p}}}^{\mathsf{p}} \, , \; \mathsf{m_{\scriptscriptstyle \mathsf{p}}}^{\mathsf
                                                                                                                                                                                 \frac{5}{16} g_1^2 c_{\gamma}^2 \overline{y_e}^{i2p} y_e^{i1p} LF_{2,2,1,-2} [m_1, \tilde{\mu}, m_{\tilde{e}}^p] +
                                                                                                                                                                                                                                                 s_{\gamma} \, \tilde{\mu} \, g_{1}^{2} \, \overline{y_{e}}^{i2p} \, y_{e}^{i1p} \, (6 \, m_{1} \, c_{\gamma} + s_{\gamma} \, \tilde{\mu}) \, LF_{2,2,1,-1} \big[ m_{1}, \, \tilde{\mu}, \, m_{e}^{\, p} \big] - \frac{1}{16} \, g_{1}^{\, 2} \, c_{\gamma}^{\, 2} \, \overline{y_{e}}^{i2p} \, y_{e}^{\, i1p}
                                                                                                                                                                                                            \mathsf{LF_{2,2,1,-2}}\big[\,\mathsf{m_{1}}\,,\,\widetilde{\mu}\,,\,\mathsf{m_{\tilde{l}}}^{\,\mathsf{il}}\,\big]\,-\,\tfrac{1}{16}\,\,\mathsf{m_{1}}\,\,\mathsf{s_{\gamma}}\,\widetilde{\mu}\,\,\mathsf{c_{\gamma}}\,\,\mathsf{g_{1}}^{2}\,\,\overline{\mathsf{y_{e}}}^{\,\mathsf{i2p}}\,\,\mathsf{y_{e}}^{\,\mathsf{i1p}}\,\,\mathsf{LF_{2,2,1,-1}}\big[\,\mathsf{m_{1}}\,,\,\widetilde{\mu}\,,\,\,\mathsf{m_{\tilde{l}}}^{\,\mathsf{i1}}\,\big]\,-\,\mathsf{m_{1}}\,\,\mathsf{m_{2}}^{\,\mathsf{i1}}\,\,\mathsf{m_{2}}\,\,\mathsf{m_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p}}\,\,\mathsf{p_{2}}^{\,\mathsf{i2p
                                                                                                                                                                                 \frac{1}{16} \ g_1{}^2 \ c_\gamma{}^2 \ \overline{y_e}{}^{i2p} \ y_e{}^{i1p} \ LF_{2,2,1,-2} \big[ \ m_1 \, , \ \widetilde{\mu} \, , \ m_{\tilde{l}}{}^{i2} \big] \ - \frac{1}{16} \ m_1 \ s_\gamma \ \widetilde{\mu} \ c_\gamma \ g_1{}^2 \ \overline{y_e}{}^{i2p} \ y_e{}^{i1p}
                                                                                                                                                                                                            \frac{1}{4} \; \mathsf{g_2}^4 \; \mathsf{m_2}^2 \; \left(\mathsf{c_{\gamma}}^2 + \mathsf{s_{\gamma}}^2\right) \; \mathsf{LF_{2,1,1,0}} \left[ \; \mathsf{m_2} \; , \; \mathsf{m_{\tilde{1}}}^{\text{-}12} \; , \; \tilde{\mu} \, \right] \; \delta_{\text{ili2}} - \frac{1}{16} \; \mathsf{g_2}^2 \; \mathsf{c_{\gamma}}^2 \; \overline{\mathsf{y_e}}^{\text{i2p}} \; \mathsf{y_e}^{\text{i1p}} \; \mathsf{LF_{2,2,1,-2}} \left[ \; \mathsf{m_2} \; , \; \tilde{\mu} \; , \; \mathsf{m_{\tilde{e}}}^{\text{p}} \, \right] \; - \frac{1}{16} \; \mathsf{g_2}^2 \; \mathsf{c_{\gamma}}^2 \; \overline{\mathsf{y_e}}^{\text{i2p}} \; \mathsf{y_e}^{\text{i1p}} \; \mathsf{LF_{2,2,1,-2}} \left[ \; \mathsf{m_2} \; , \; \tilde{\mu} \; , \; \mathsf{m_{\tilde{e}}}^{\text{p}} \; \right] \; - \frac{1}{16} \; \mathsf{g_2}^2 \; \mathsf{c_{\gamma}}^2 \; \overline{\mathsf{y_e}}^{\text{i2p}} \; \mathsf{y_e}^{\text{i1p}} \; \mathsf{LF_{2,2,1,-2}} \left[ \; \mathsf{m_2} \; , \; \tilde{\mu} \; , \; \mathsf{m_{\tilde{e}}}^{\text{p}} \; \right] \; - \frac{1}{16} \; \mathsf{g_2}^2 \; \mathsf{v_{\gamma}}^2 \; \overline{\mathsf{y_e}}^{\text{i2p}} \; \mathsf{v_{\varepsilon}}^{\text{i2p}} \; \mathsf{v_{\varepsilon}}^{\text{i2p
                                                                                                                                                                                 \frac{1}{16} \; \mathsf{S}_{\mathsf{Y}} \; \tilde{\boldsymbol{\mu}} \; \mathsf{g_{2}}^{2} \; \overline{\mathsf{y_{e}}}^{\mathsf{i2p}} \; \mathsf{y_{e}}^{\mathsf{i1p}} \; \left( 2 \; \mathsf{m_{2}} \; \mathsf{c_{\mathsf{Y}}} + \mathsf{s_{\mathsf{Y}}} \; \tilde{\boldsymbol{\mu}} \right) \; \mathsf{LF_{2,2,1,-1}} \big[ \; \mathsf{m_{2}} \, , \; \tilde{\boldsymbol{\mu}} \, , \; \mathsf{m_{e}}^{\mathsf{p}} \big] \; + \; \frac{3}{16} \; \; \mathsf{g_{2}}^{2} \; \mathsf{c_{\mathsf{Y}}}^{2} \; \overline{\mathsf{y_{e}}}^{\mathsf{i2p}} \; \mathsf{y_{e}}^{\mathsf{i1p}} \, .
                                                                                                                                                                                                            \mathsf{LF}_{2,2,1,-2}\big[\mathsf{m}_2\,,\,\widetilde{\mu}\,,\,\mathsf{m}_{\widetilde{\mathsf{l}}}^{\,\,\mathrm{il}}\big]\,+\,\tfrac{3}{16}\;\mathsf{m}_2\;\mathsf{s}_{\mathsf{Y}}\,\widetilde{\mu}\;\mathsf{c}_{\mathsf{Y}}\;\mathsf{g}_2^{\,2}\,\overline{\,\mathsf{y}_{\mathsf{e}}}^{\,\,\mathrm{i}\,2\mathsf{p}}\;\mathsf{y}_{\mathsf{e}}^{\,\,\mathrm{il}}\mathsf{p}\;\mathsf{LF}_{2,2,1,-1}\big[\mathsf{m}_2\,,\,\widetilde{\mu}\,,\,\mathsf{m}_{\widetilde{\mathsf{l}}}^{\,\,\mathrm{il}}\big]\,+\,\mathsf{m}_{\mathsf{e}}^{\,\,\mathrm{il}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}^{\,\,\mathrm{i}\,2\mathsf{p}}\,\mathsf{g}_{\mathsf{e}}^{\,\,\mathrm{il}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}^{\,\,\mathrm{il}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}^{\,\,\mathrm{il}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}_2^{\,\,\mathrm{e}}\,\mathsf{g}
                                                                                                                                                                                 \frac{1}{16} \left(3 \; {g_2}^2 \; {c_{\gamma}}^2 \; \overline{y_e}^{i2p} \; {y_e}^{i1p} + 2 \; {g_2}^4 \; \left({c_{\gamma}}^2 + {s_{\gamma}}^2\right) \; \delta_{i1i2}\right) \; \mathsf{LF}_{2,2,1,-2} \left[\mathsf{m}_2 \; , \; \tilde{\mu} \; , \; \mathsf{m_{\tilde{l}}}^{i2}\right] \; + \; \left({c_{\gamma}}^2 + {s_{\gamma}}^2 \right) \; \delta_{i1i2} \left({c_{\gamma}}^2 + {c_{\gamma}}^2 \right) \; \delta_
                                                                                                                                                                                 \frac{1}{16} \; \mathsf{m_2} \; \mathsf{g_2}^2 \; \left( 3 \; \mathsf{s_{\scriptscriptstyle Y}} \; \tilde{\boldsymbol{\mu}} \; \mathsf{c_{\scriptscriptstyle Y}} \; \overline{\mathsf{y_e}}^{\mathsf{i}2p} \; \mathsf{y_e}^{\mathsf{i}1p} \; + \; 2 \; \mathsf{g_2}^2 \; \left( \mathsf{m_2} \; \left( \mathsf{c_{\scriptscriptstyle Y}}^2 + \mathsf{s_{\scriptscriptstyle Y}}^2 \right) \; + \; 4 \; \mathsf{s_{\scriptscriptstyle Y}} \; \tilde{\boldsymbol{\mu}} \; \mathsf{c_{\scriptscriptstyle Y}} \right) \; \delta_{\mathsf{i}1\mathsf{i}2} \right) \; \mathsf{LF_{2,2,1,-1}} \left[ \; \mathsf{m_2} \; , \; \tilde{\boldsymbol{\mu}} \; , \; \mathsf{m_{\bar{1}}}^{\mathsf{i}2} \right] \; + \; \mathsf{m_2} \; \mathsf{m_2}^{\mathsf{i}2p} \; 
                                                                                                                                                                                 \frac{1}{16} \ g_1{}^2 \ c_\gamma{}^2 \ \overline{y_e}{}^{i2p} \ y_e{}^{i1p} \ \mathsf{LF}_{2,1,1,-1} \big[ \widetilde{\mu} \,,\, \mathsf{m}_1 \,,\, \mathsf{m}_{\tilde{e}}{}^p \big] \, - \, \frac{1}{8} \ g_1{}^2 \ s_\gamma{}^2 \ \widetilde{y_e}{}^{i2p} \ y_e{}^{i1p} \ \mathsf{LF}_{2,1,1,0} \big[ \widetilde{\mu} \,,\, \mathsf{m}_1 \,,\, \mathsf{m}_{\tilde{e}}{}^p \big] \, + \, \frac{1}{8} \ g_1{}^2 \ s_\gamma{}^2 \ \widetilde{\mu}{}^2 \ \overline{y_e}{}^{i2p} \ y_e{}^{i1p} \ \mathsf{LF}_{2,1,1,0} \big[ \widetilde{\mu} \,,\, \mathsf{m}_1 \,,\, \mathsf{m}_{\tilde{e}}{}^p \big] \, + \, \frac{1}{8} \ g_1{}^2 \ s_\gamma{}^2 \ \widetilde{\mu}{}^2 \ \overline{y_e}{}^{i2p} \ y_e{}^{i1p} \ \mathsf{LF}_{2,1,1,0} \big[ \widetilde{\mu} \,,\, \mathsf{m}_1 \,,\, \mathsf{m}_{\tilde{e}}{}^p \big] \, + \, \frac{1}{8} \ g_1{}^2 \ s_\gamma{}^2 \ \widetilde{\mu}{}^2 \ \overline{y_e}{}^{i2p} \ y_e{}^{i1p} \ \mathsf{LF}_{2,1,1,0} \big[ \widetilde{\mu} \,,\, \mathsf{m}_1 \,,\, \mathsf{m}_{\tilde{e}}{}^p \big] \, + \, \frac{1}{8} \ g_1{}^2 \ s_\gamma{}^2 \ \widetilde{\mu}{}^2 \ \overline{y_e}{}^{i2p} \ y_e{}^{i1p} \ \mathsf{LF}_{2,1,1,0} \big[ \widetilde{\mu} \,,\, \mathsf{m}_1 \,,\, \mathsf{m}_{\tilde{e}}{}^p \big] \, + \, \frac{1}{8} \ g_1{}^2 \ s_\gamma{}^2 \ \widetilde{\mu}{}^2 \ \widetilde{\mu}{}^2
                                                                                                                                                                                 \frac{3}{16} \; g_{1}{}^{2} \; c_{\gamma}{}^{2} \; \overline{y_{e}}{}^{i2p} \; y_{e}{}^{i1p} \; \mathsf{LF}_{2,1,1,-1} \big[ \tilde{\mu} \; , \; \mathsf{m}_{1} \; , \; \mathsf{m}_{\tilde{l}}{}^{i1} \big] \; + \; \frac{1}{8} \; \mathsf{m}_{1} \; s_{\gamma} \; \tilde{\mu} \; c_{\gamma} \; g_{1}{}^{2} \; \overline{y_{e}}{}^{i2p} \; y_{e}{}^{i1p} \; \mathsf{LF}_{2,1,1,0} \big[ \tilde{\mu} \; , \; \mathsf{m}_{1} \; , \; \mathsf{m}_{\tilde{l}}{}^{i1} \big] \; - \; \frac{1}{8} \; \mathsf{m}_{1} \; s_{\gamma} \; \tilde{\mu} \; c_{\gamma} \; g_{1}{}^{2} \; \overline{y_{e}}{}^{i2p} \; y_{e}{}^{i1p} \; \mathsf{LF}_{2,1,1,0} \big[ \tilde{\mu} \; , \; \mathsf{m}_{1} \; , \; \mathsf{m}_{\tilde{l}}{}^{i1} \big] \; - \; \frac{1}{8} \; \mathsf{m}_{1} \; s_{\gamma} \; \tilde{\mu} \; c_{\gamma} \; g_{1}{}^{2} \; \overline{y_{e}}{}^{i2p} \; y_{e}{}^{i1p} \; \mathsf{LF}_{2,1,1,0} \big[ \tilde{\mu} \; , \; \mathsf{m}_{1} \; , \; \mathsf{m}_{\tilde{l}}{}^{i1} \big] \; - \; \frac{1}{8} \; \mathsf{m}_{1} \; s_{\gamma} \; \tilde{\mu} \; c_{\gamma} \; g_{1}{}^{2} \; \overline{y_{e}}{}^{i2p} \; y_{e}{}^{i1p} \; \mathsf{LF}_{2,1,1,0} \big[ \tilde{\mu} \; , \; \mathsf{m}_{1} \; , \; \mathsf{m}_{\tilde{l}}{}^{i1} \big] \; - \; \frac{1}{8} \; \mathsf{m}_{1} \; s_{\gamma} \; \tilde{\mu} \; c_{\gamma} \; g_{1}{}^{2} \; \overline{y_{e}}{}^{i2p} \; y_{e}{}^{i1p} \; \mathsf{LF}_{2,1,1,0} \big[ \tilde{\mu} \; , \; \mathsf{m}_{1} \; , \; \mathsf{m}_{\tilde{l}}{}^{i1} \big] \; - \; \frac{1}{8} \; \mathsf{m}_{1} \; s_{\gamma} \; \tilde{\mu} \; c_{\gamma} \; \tilde{\mu} \; s_{\gamma} \; \tilde{
                                                                                                                                                                                                                                 g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,1,-2}\big[\tilde{\mu}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{1}}{}^{i1}\big]\;-\;\tfrac{1}{8}\;\mathsf{m}_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,1,-1}\big[\tilde{\mu}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{1}}{}^{i1}\big]\;+\;\mathsf{m}_{\tilde{1}}{}^{i1}\big[\tilde{\mu}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{1
                                                                                                                                                                                                                                                       g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,-1}\big[\tilde{\mu}\,,\,m_{1}\,,\,m_{\tilde{l}}{}^{i2}\big]\,+\,\frac{1}{8}\;m_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{1}\,,\,m_{\tilde{l}}{}^{i2}\big]\,-\,\frac{1}{8}\;m_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{1}\,,\,m_{\tilde{l}}{}^{i2}\big]\,-\,\frac{1}{8}\;m_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{1}\,,\,m_{\tilde{l}}{}^{i2}\big]\,-\,\frac{1}{8}\;m_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{1}\,,\,m_{\tilde{l}}{}^{i2}\big]\,-\,\frac{1}{8}\;m_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{1}\,,\,m_{\tilde{l}}{}^{i2}\big]\,-\,\frac{1}{8}\;m_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{1}\,,\,m_{\tilde{l}}{}^{i2}\big]\,-\,\frac{1}{8}\;m_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;y_{e}{}^{i1p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{1}\,,\,m_{\tilde{l}}{}^{i2}\big]\,-\,\frac{1}{8}\;m_{1}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu
                                                                                                                                                                                                                                 g_{1}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,1,-2}\big[\tilde{\mu}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{l}}{}^{i2}\big]\;-\;\tfrac{1}{8}\;\mathsf{m}_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,1,-1}\big[\tilde{\mu}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{l}}{}^{i2}\big]\;-\;\frac{1}{8}\;\mathsf{m}_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,1,-1}\big[\tilde{\mu}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{l}}{}^{i2}\big]\;-\;\frac{1}{8}\;\mathsf{m}_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,1,-1}\big[\tilde{\mu}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{l}}{}^{i2}\big]\;-\;\frac{1}{8}\;\mathsf{m}_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,1,-1}\big[\tilde{\mu}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{l}}{}^{i2}\big]\;-\;\frac{1}{8}\;\mathsf{m}_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{3,1,1,-1}\big[\tilde{\mu}\,,\,\mathsf{m}_{1}\,,\,\mathsf{m}_{\tilde{l}}{}^{i2}\big]\;-\;\frac{1}{8}\;\mathsf{m}_{1}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{1}{}^{2}\;\overline{y_{e}}{}^{2}\;\overline{y_{e}}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{e}{}^{2p}\;y_{
                                                                                                                                                                                                                                                       g_{2}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,-1}\big[\tilde{\mu}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{e}}{}^{p}\big]\,+\,\frac{1}{8}\;g_{2}{}^{2}\;s_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{e}}{}^{p}\big]\,-\,\frac{1}{8}\,g_{2}{}^{2}\;s_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{e}}{}^{p}\big]\,-\,\frac{1}{8}\,g_{2}{}^{2}\;s_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{e}}{}^{p}\big]\,-\,\frac{1}{8}\,g_{2}{}^{2}\;s_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i2p}\;y_{e}{}^{i
                                                                                                                                                                                                                                                       g_{2}{}^{2}\;c_{\gamma}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,-1}\big[\tilde{\mu}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{l}}{}^{i1}\big]\;-\;\frac{3}{8}\;\mathsf{m}_{2}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{2}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{l}}{}^{i1}\big]\;+\;\frac{3}{8}\;\mathsf{m}_{2}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{2}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{l}}{}^{i1}\big]\;+\;\frac{3}{8}\;\mathsf{m}_{2}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{2}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{l}}{}^{i1}\big]\;+\;\frac{3}{8}\;\mathsf{m}_{2}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{2}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{l}}{}^{i1}\big]\;+\;\frac{3}{8}\;\mathsf{m}_{2}\;s_{\gamma}\;\tilde{\mu}\;c_{\gamma}\;g_{2}{}^{2}\;\overline{y_{e}}{}^{i2p}\;y_{e}{}^{i1p}\;\mathsf{LF}_{2,1,1,0}\big[\tilde{\mu}\,,\,\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{l}}{}^{i1}\big]\;+\;\frac{3}{8}\;\mathsf{m}_{2}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;\tilde{\mu}\;s_{\gamma}\;
                                                                                                                                                                                 \frac{3}{8} \; \mathsf{g_2}^2 \; \mathsf{c_{\gamma}}^2 \; \overline{\mathsf{y_e}}^{\mathsf{i2p}} \; \mathsf{y_e}^{\mathsf{i1p}} \; \mathsf{LF_{3,1,1,-2}} \big[ \widetilde{\mu} \,, \, \mathsf{m_2} \,, \, \mathsf{m_{\tilde{l}}}^{\mathsf{i1}} \big] \; + \\ \frac{3}{8} \; \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \mathsf{c_{\gamma}} \; \mathsf{g_2}^2 \; \overline{\mathsf{y_e}}^{\mathsf{i2p}} \; \mathsf{y_e}^{\mathsf{i1p}} \; \mathsf{LF_{3,1,1,-1}} \big[ \widetilde{\mu} \,, \, \mathsf{m_2} \,, \, \mathsf{m_{\tilde{l}}}^{\mathsf{i1}} \big] \; - \\ \frac{3}{8} \; \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \mathsf{c_{\gamma}} \; \mathsf{g_2}^2 \; \overline{\mathsf{y_e}}^{\mathsf{i2p}} \; \mathsf{y_e}^{\mathsf{i1p}} \; \mathsf{LF_{3,1,1,-1}} \big[ \widetilde{\mu} \,, \, \mathsf{m_2} \,, \, \, \mathsf{m_{\tilde{l}}}^{\mathsf{i1}} \big] \; - \\ \frac{3}{8} \; \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \mathsf{c_{\gamma}} \; \mathsf{g_2}^2 \; \overline{\mathsf{y_e}}^{\mathsf{i2p}} \; \mathsf{y_e}^{\mathsf{i1p}} \; \mathsf{LF_{3,1,1,-1}} \big[ \widetilde{\mu} \,, \, \, \mathsf{m_2} \,, \, \, \mathsf{m_{\tilde{l}}}^{\mathsf{i1}} \big] \; - \\ \frac{3}{8} \; \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \mathsf{c_{\gamma}} \; \mathsf{g_2}^2 \; \overline{\mathsf{y_e}}^{\mathsf{i2p}} \; \mathsf{y_e}^{\mathsf{i1p}} \; \mathsf{LF_{3,1,1,-1}} \big[ \widetilde{\mu} \,, \, \, \mathsf{m_2} \,, \, \, \, \mathsf{m_{\tilde{l}}}^{\mathsf{i1}} \big] \; - \\ \frac{3}{8} \; \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \mathsf{c_{\gamma}} \; \mathsf{g_2}^2 \; \overline{\mathsf{y_e}}^{\mathsf{i2p}} \; \mathsf{y_e}^{\mathsf{i1p}} \; \mathsf{LF_{3,1,1,-1}} \big[ \widetilde{\mu} \,, \, \, \, \mathsf{m_2} \,, \, \, \, \, \, \mathsf{m_{\tilde{l}}}^{\mathsf{i1p}} \big] \; - \\ \frac{3}{8} \; \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \mathsf{c_{\gamma}} \; \mathsf{s_{\gamma}} \; \mathsf{m_{\tilde{l}}} \; \mathsf{m_{\tilde{l}}}^{\mathsf{i1p}} \; \mathsf{l_{\tilde{l}}} \; \mathsf{m_{\tilde{l}}} \; \mathsf{m_{\tilde{l}}
                                                                                                                                                                                 \frac{9}{16} \ g_2{}^2 \ c_\gamma{}^2 \ \overline{y_e}{}^{i2p} \ y_e{}^{i1p} \ \mathsf{LF}_{2,1,1,-1} \big[ \tilde{\mu} \,,\, \mathsf{m}_2 \,,\, \mathsf{m}_{\tilde{l}}{}^{i2} \big] \, - \, \frac{3}{8} \ \mathsf{m}_2 \ \mathsf{s}_\gamma \ \tilde{\mu} \ c_\gamma \ g_2{}^2 \ \overline{y_e}{}^{i2p} \ y_e{}^{i1p} \ \mathsf{LF}_{2,1,1,0} \big[ \tilde{\mu} \,,\, \mathsf{m}_2 \,,\, \mathsf{m}_{\tilde{l}}{}^{i2} \big] \, + \, \frac{3}{8} \ \mathsf{m}_2 \ \mathsf{s}_\gamma \ \tilde{\mu} \ \mathsf{c}_\gamma \ g_2{}^2 \ \overline{y_e}{}^{i2p} \ \mathsf{y}_e{}^{i1p} \ \mathsf{LF}_{2,1,1,0} \big[ \tilde{\mu} \,,\, \mathsf{m}_2 \,,\, \mathsf{m}_{\tilde{l}}{}^{i2} \big] \, + \, \frac{3}{8} \ \mathsf{m}_2 \ \mathsf{s}_\gamma \ \tilde{\mu} \ \mathsf{c}_\gamma \ \mathsf{g}_2{}^2 \ \overline{\mathsf{y}_e}{}^{i2p} \ \mathsf{y}_e{}^{i1p} \ \mathsf{LF}_{2,1,1,0} \big[ \tilde{\mu} \,,\, \mathsf{m}_2 \,,\, \mathsf{m}_{\tilde{l}}{}^{i2} \big] \, + \, \frac{3}{8} \ \mathsf{m}_2 \ \mathsf{s}_\gamma \ \tilde{\mu} \ \mathsf{e}_\gamma \ \mathsf{g}_\gamma \ \mathsf
                                                                                                                                                                                 \frac{3}{8}\; \mathsf{g_2}^2\; \mathsf{c_{\gamma}}^2\; \overline{\mathsf{y_e}}^{\mathsf{i2p}}\; \mathsf{y_e}^{\mathsf{i1p}}\; \mathsf{LF_{3,1,1,-2}}\big[\tilde{\mu}\;,\; \mathsf{m_2}\;,\; \mathsf{m_{\tilde{l}}}^{\mathsf{i2}}\big] \; + \\ \frac{3}{8}\; \mathsf{m_2}\; \mathsf{s_{\gamma}}\; \tilde{\mu}\; \mathsf{c_{\gamma}}\; \mathsf{g_2}^2\; \overline{\mathsf{y_e}}^{\mathsf{i2p}}\; \mathsf{y_e}^{\mathsf{i1p}}\; \mathsf{LF_{3,1,1,-1}}\big[\tilde{\mu}\;,\; \mathsf{m_2}\;,\; \mathsf{m_{\tilde{l}}}^{\mathsf{i2}}\big] \; + \\ \frac{3}{8}\; \mathsf{m_2}\; \mathsf{s_{\gamma}}\; \tilde{\mu}\; \mathsf{c_{\gamma}}\; \mathsf{g_2}^2\; \overline{\mathsf{y_e}}^{\mathsf{i2p}}\; \mathsf{y_e}^{\mathsf{i1p}}\; \mathsf{LF_{3,1,1,-1}}\big[\tilde{\mu}\;,\; \mathsf{m_2}\;,\; \mathsf{m_{\tilde{l}}}^{\mathsf{i2}}\big] \; + \\ \frac{3}{8}\; \mathsf{m_2}\; \mathsf{s_{\gamma}}\; \tilde{\mu}\; \mathsf{c_{\gamma}}\; \mathsf{g_2}^2\; \overline{\mathsf{y_e}}^{\mathsf{i2p}}\; \mathsf{y_e}^{\mathsf{i1p}}\; \mathsf{LF_{3,1,1,-1}}\big[\tilde{\mu}\;,\; \mathsf{m_2}\;,\; \mathsf{m_{\tilde{l}}}^{\mathsf{i2p}}\big] \; + \\ \frac{3}{8}\; \mathsf{m_2}\; \mathsf{s_{\gamma}}\; \tilde{\mu}\; \mathsf{c_{\gamma}}\; \mathsf{g_2}^2\; \overline{\mathsf{y_e}}^{\mathsf{i2p}}\; \mathsf{y_e}^{\mathsf{i1p}}\; \mathsf{LF_{3,1,1,-1}}\big[\tilde{\mu}\;,\; \mathsf{m_2}\;,\; \mathsf{m_{\tilde{l}}}^{\mathsf{i2p}}\big] \; + \\ \frac{3}{8}\; \mathsf{m_2}\; \mathsf{s_{\gamma}}\; \tilde{\mu}\; \mathsf{c_{\gamma}}\; \mathsf{g_2}^2\; \overline{\mathsf{y_e}}^{\mathsf{i2p}}\; \mathsf{v_{e}}^{\mathsf{i1p}}\; \mathsf{LF_{3,1,1,-1}}\big[\tilde{\mu}\;,\; \mathsf{m_2}\;,\; \mathsf{m_{\tilde{l}}}^{\mathsf{i2p}}\big] \; + \\ \frac{3}{8}\; \mathsf{m_2}\; \mathsf{s_{\gamma}}\; \tilde{\mu}\; \mathsf{d_{\gamma}}\; \mathsf{d_
                                                                                                                                                                           \frac{1}{8}~g_{1}^{2}~g_{2}^{2}~\left(-~c_{\gamma}^{~2}~+~s_{\gamma}^{~2}\right)~\mathsf{LF}_{1,1,1,1,-1}\big[~\mathsf{m}_{1}~,~\mathsf{m}_{2}~,~\mathsf{m}_{\tilde{l}}^{~i2}~,~\tilde{\mu}\big]~\delta_{\dot{1}\dot{1}\dot{2}}~+
                                                                                                                                                                                                                                 \textbf{m}_{1} \; \textbf{m}_{2} \; \textbf{g}_{1}^{\; 2} \; \textbf{g}_{2}^{\; 2} \; \left( - \, \textbf{c}_{\gamma}^{\; 2} + \, \textbf{s}_{\gamma}^{\; 2} \right) \; \textbf{LF}_{\textbf{1},\textbf{1},\textbf{1},\textbf{1},\textbf{0}} \big[ \, \textbf{m}_{\textbf{1}} \, , \; \textbf{m}_{\textbf{2}} \, , \; \textbf{m}_{\tilde{\textbf{1}}}^{\; \dot{\textbf{1}} \, 2} \, , \; \tilde{\mu} \, \big] \; \delta_{\dot{\textbf{1}}\dot{\textbf{1}}\dot{\textbf{1}} \, 2} \; + \, \delta_{\dot{\textbf{1}}\dot{\textbf{1}}\dot{\textbf{1}} \, 2} \; , \; \delta_{\dot{\textbf{1}}\dot{\textbf{1}}\dot{\textbf{1}} \; 3} \; , \; \delta_{\dot{\textbf{1}}\dot{\textbf{1}}\dot{
                                                                                                                                                                                 \frac{1}{16}~g_{1}^{~2}~\overline{y_{e}}^{i2p}~(m_{1}~c_{\gamma}-s_{\gamma}~\widetilde{\mu})~\left(c_{\gamma}~a_{e}^{~i1p}-s_{\gamma}~\widetilde{\mu}~y_{e}^{~i1p}\right)~\mathsf{LF}_{1,1,1,1,0}\left[m_{1},~m_{\tilde{e}}^{~p},~m_{\tilde{l}}^{~i1},~\widetilde{\mu}\right]~+
                                                                                                                                                                                 \frac{1}{32} \; g_{1}^{\; 2} \; \overline{y_{e}}^{\dagger 2p} \; \left( m_{1} \; c_{\gamma} + s_{\gamma} \; \widetilde{\mu} \right) \; \left( c_{\gamma} \; a_{e}^{\; \dagger 1p} - s_{\gamma} \; \widetilde{\mu} \; y_{e}^{\; \dagger 1p} \right) \; \mathsf{LF}_{2,1,1,1,-1} \big[ m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; m_{\tilde{l}}^{\; \dagger 1} \; , \; \widetilde{\mu} \big] \; + \; \mathsf{LF}_{2,1,1,1,-1} \left[ m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; m_{\tilde{l}}^{\; \dagger 1} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1,1,-1} \left[ m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; m_{\tilde{l}}^{\; \dagger 1} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1,1,-1} \left[ m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; m_{\tilde{l}}^{\; \dagger 1} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1,1,-1} \left[ m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; m_{\tilde{l}}^{\; \dagger 1} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1,1,-1} \left[ m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; m_{\tilde{l}}^{\; \dagger 1} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1,1,-1} \left[ m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; m_{\tilde{l}}^{\; \dagger 1} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1,1,-1} \left[ m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; m_{\tilde{l}}^{\; \dagger 1} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1,1,1} \left[ m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; m_{\tilde{l}}^{\; \dagger 1} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1,1,1} \left[ m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; m_{\tilde{l}}^{\; p} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1,1} \left[ m_{1} \; , \; m_{\tilde{l}}^{\; p} \; , \; m_{\tilde{l}}^{\; p} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1} \left[ m_{1} \; , \; m_{\tilde{l}}^{\; p} \; , \; m_{\tilde{l}}^{\; p} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1} \left[ m_{1} \; , \; m_{\tilde{l}}^{\; p} \; , \; m_{\tilde{l}}^{\; p} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1,1} \left[ m_{1} \; , \; m_{\tilde{l}}^{\; p} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1} \left[ m_{1} \; , \; m_{\tilde{l}}^{\; p} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1} \left[ m_{1} \; , \; m_{\tilde{l}}^{\; p} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1} \left[ m_{1} \; , \; m_{\tilde{l}}^{\; p} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1} \left[ m_{1} \; , \; \widetilde{\mu} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1} \left[ m_{1} \; , \; \widetilde{\mu} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1} \left[ m_{1} \; , \; \widetilde{\mu} \; , \; \widetilde{\mu} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1} \left[ m_{1} \; , \; \widetilde{\mu} \; , \; \widetilde{\mu} \; , \; \widetilde{\mu} \; , \; \widetilde{\mu} \right] \; + \; \mathsf{LF}_{2,1} \left[ m_{1} \; , \; \widetilde{\mu} \; , \; \widetilde
                                                                                                                                                                                                                                                 \frac{1}{32} \; g_{1}^{\; 2} \; y_{e}^{\; i1p} \; \left( m_{1} \; c_{\gamma} + s_{\gamma} \; \widetilde{\mu} \right) \; \left( c_{\gamma} \; \overline{a_{e}}^{\; i2p} - s_{\gamma} \; \widetilde{\mu} \; \overline{y_{e}}^{\; i2p} \right) \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{l}}^{\; p} \, , \; m_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,-1} \big[ \, m_{1} \, , \; m_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1} \big[ \, m_{1} \, , \; m_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1} \big[ \, m_{1} \, , \; m_{1}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1} \big[ \, m_{1} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1} \big[ \, m_{1} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1} \big[ \, m_{1} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1} \big[ \, m_{1} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1}
                                                                                                                                                                                                                                                       g_2^2 \; \overline{y_e}^{i2p} \; \left( \text{m}_2 \; c_{\gamma} - s_{\gamma} \; \widetilde{\mu} \right) \; \left( c_{\gamma} \; a_e^{i1p} - s_{\gamma} \; \widetilde{\mu} \; y_e^{i1p} \right) \; \text{LF}_{1,1,1,1,0} \big[ \, \text{m}_2 \, , \; \text{m}_{\tilde{e}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; i1} \, , \; \widetilde{\mu} \, \big] \; + \; \text{LF}_{1,1,1,1,0} \left[ \, \text{m}_2 \, , \; \text{m}_{\tilde{e}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; i1} \, , \; \widetilde{\mu} \, \right] \; + \; \text{LF}_{1,1,1,1,0} \left[ \, \text{m}_2 \, , \; \text{m}_{\tilde{e}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; i1} \, , \; \widetilde{\mu} \, \right] \; + \; \text{LF}_{1,1,1,1,0} \left[ \, \text{m}_2 \, , \; \text{m}_{\tilde{e}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; i1} \, , \; \widetilde{\mu} \, \right] \; + \; \text{LF}_{1,1,1,1,0} \left[ \, \text{m}_2 \, , \; \text{m}_{\tilde{e}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; i1} \, , \; \widetilde{\mu} \, \right] \; + \; \text{LF}_{1,1,1,1,0} \left[ \, \text{m}_2 \, , \; \text{m}_{\tilde{e}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; i1} \, , \; \widetilde{\mu} \, \right] \; + \; \text{LF}_{1,1,1,1,0} \left[ \, \text{m}_2 \, , \; \text{m}_{\tilde{e}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; i1} \, , \; \widetilde{\mu} \, \right] \; + \; \text{LF}_{1,1,1,1,0} \left[ \, \text{m}_2 \, , \; \text{m}_{\tilde{e}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, \right] \; + \; \text{LF}_{1,1,1,1,0} \left[ \, \text{m}_2 \, , \; \text{m}_{\tilde{e}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu} \, , \; \widetilde{\mu} \, \right] \; + \; \text{LF}_{1,1,1,1,0} \left[ \, \text{m}_2 \, , \; \text{m}_{\tilde{l}}^{\; p} \, , \; \text{m}_{\tilde{l}}^{\; p} \, , \; \widetilde{\mu}_{\tilde{l}}^{\; p
                                                                                                                                                                                 \frac{1}{32} \; g_2^{\; 2} \; \overline{y_e}^{i2p} \; \left( \mathsf{m_2} \; \mathsf{c_{\gamma}} + \mathsf{s_{\gamma}} \; \widetilde{\mu} \right) \; \left( \mathsf{c_{\gamma}} \; a_e^{\; i1p} - \mathsf{s_{\gamma}} \; \widetilde{\mu} \; y_e^{\; i1p} \right) \; \mathsf{LF_{2,1,1,1,-1}} \big[ \, \mathsf{m_2} \, , \; \mathsf{m_e^p} \, , \; \mathsf{m_l^{\; i1}} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{m_l^{\; i1}} \; , \; \mathsf{m_l^{\; i1
                                                                                                                                                                                 \frac{1}{16} \; g_2^{\; 2} \; y_e^{\; i1p} \; \left( m_2 \; c_{\gamma} - s_{\gamma} \; \widetilde{\mu} \right) \; \left( c_{\gamma} \; \overline{a_e}^{i2p} - s_{\gamma} \; \widetilde{\mu} \; \overline{y_e}^{i2p} \right) \; \mathsf{LF}_{1,1,1,1,0} \big[ \, m_2 \, , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; c_{\gamma} \; (m_2 \; c_{\gamma} - s_{\gamma} \; \widetilde{\mu}) \; \left( c_{\gamma} \; \overline{a_e}^{i2p} - s_{\gamma} \; \widetilde{\mu} \; \overline{y_e}^{i2p} \right) \; \mathsf{LF}_{1,1,1,1,0} \big[ \, m_2 \; , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; c_{\gamma} \; (m_2 \; c_{\gamma} - s_{\gamma} \; \widetilde{\mu}) \; \left( c_{\gamma} \; \overline{a_e}^{i2p} - s_{\gamma} \; \widetilde{\mu} \; \overline{y_e}^{i2p} \right) \; \mathsf{LF}_{1,1,1,1,0} \big[ \, m_2 \; , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2} \, , \; \widetilde{\mu} \, \big] \; + \; c_{\gamma} \; (m_2 \; c_{\gamma} - s_{\gamma} \; \widetilde{\mu}) \; \left( c_{\gamma} \; \overline{a_e}^{i2p} - s_{\gamma} \; \widetilde{\mu} \; \overline{y_e}^{i2p} \right) \; \mathsf{LF}_{1,1,1,1,0} \big[ \, m_2 \; , \; m_{\tilde{e}}^{\; p} \, , \; m_{\tilde{l}}^{\; i2p} \, , \; \widetilde{\mu} \, \big] \; + \; c_{\gamma} \; (m_2 \; c_{\gamma} - s_{\gamma} \; \widetilde{\mu}) \; (m
                                                                                                                                                                                 \frac{1}{32} \; g_2^{\; 2} \; y_e^{\; i1p} \; \left( \mathsf{m}_2 \; \mathsf{c}_{\scriptscriptstyle \Upsilon} + \mathsf{s}_{\scriptscriptstyle \Upsilon} \; \widetilde{\mu} \right) \; \left( \mathsf{c}_{\scriptscriptstyle \Upsilon} \; \overline{\mathsf{a}_e}^{\; i2p} - \mathsf{s}_{\scriptscriptstyle \Upsilon} \; \widetilde{\mu} \; \overline{\mathsf{y}_e}^{\; i2p} \right) \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, \mathsf{m}_2 \, , \, \, \mathsf{m}_{\scriptscriptstyle \widetilde{e}}^{\; p} \, , \, \, \, \mathsf{m}_{\scriptscriptstyle \widetilde{l}}^{\; i2} \, , \, \, \widetilde{\mu} \, \big] \; - \; \mathsf{m}_{\scriptscriptstyle \widetilde{l}}^{\; i2} \; , \; \mathsf{m}_{\scriptscriptstyle \widetilde{l
                                                                                                                                                                                                                                                       g_{1}^{2} \, \overline{y_{e}}^{i2p} \, \left( \mathbf{m_{1}} \, \mathbf{c_{\gamma}} + \mathbf{s_{\gamma}} \, \widetilde{\boldsymbol{\mu}} \right) \, \left( \mathbf{c_{\gamma}} \, a_{e}^{\, i1p} - \mathbf{s_{\gamma}} \, \widetilde{\boldsymbol{\mu}} \, \mathbf{y_{e}}^{\, i1p} \right) \, \mathsf{LF_{2,1,1,1,-1}} \big[ \, \mathbf{m_{\tilde{e}}}^{\, p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i1} \,, \, \, \widetilde{\boldsymbol{\mu}} \, \big] \, - \, \mathbf{m_{\tilde{l}}}^{\, i2p} \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf{m_{\tilde{l}}}^{\, i2p} \,, \, \, \mathbf{m_{1}} \,, \, \, \mathbf
                                                                                                                                                                                 32
                                                                                                                                                                                                                                                       g_{1}^{2}\left(c_{\gamma}\,\overline{a_{e}}^{i2p}-s_{\gamma}\,\widetilde{\mu}\,\overline{y_{e}}^{i2p}\right)\,\left(c_{\gamma}\,a_{e}^{i1p}-s_{\gamma}\,\widetilde{\mu}\,y_{e}^{i1p}\right)\,LF_{2,1,1,1,-1}\big[m_{\tilde{e}}^{\,\,p},\,m_{1},\,m_{\tilde{l}}^{\,\,i2},\,m_{\tilde{l}}^{\,\,i1}\big]-m_{\tilde{e}}^{\,\,l}
                                                                                                                                                                                                                                                            \mathbf{g_1}^2 \ \mathbf{y_e^{i1p}} \ (\mathbf{m_1} \ \mathbf{c_{\gamma}} + \mathbf{s_{\gamma}} \ \widetilde{\boldsymbol{\mu}}) \ \left(\mathbf{c_{\gamma}} \ \overline{\mathbf{a_e}}^{i2p} - \mathbf{s_{\gamma}} \ \widetilde{\boldsymbol{\mu}} \ \overline{\mathbf{y_e}}^{i2p}\right) \ \mathsf{LF_{2,1,1,1,-1}} \left[\mathbf{m_{\tilde{e}}}^p, \ \mathbf{m_1}, \ \mathbf{m_{\tilde{l}}}^{i2}, \ \widetilde{\boldsymbol{\mu}}\right] - \mathbf{m_{\tilde{l}}}^{i2p} \mathbf{m_{\tilde{l}}} + \mathbf{m_{\tilde{l}}}^{i2p} \mathbf{m_{\tilde{l}}} +
                                                                                                                                                                                 32
                                                                                                                                                                                 \frac{1}{32} \; g_2^{\; 2} \; \overline{y_e}^{i2p} \; \left( \mathsf{m}_2 \; \mathsf{c}_{\scriptscriptstyle \Upsilon} + \mathsf{s}_{\scriptscriptstyle \Upsilon} \; \widetilde{\mu} \right) \; \left( \mathsf{c}_{\scriptscriptstyle \Upsilon} \; \mathsf{a}_e^{\; i1p} - \mathsf{s}_{\scriptscriptstyle \Upsilon} \; \widetilde{\mu} \; \mathsf{y}_e^{\; i1p} \right) \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, \mathsf{m}_{\bar{\mathsf{e}}}^{\; p} \,, \; \mathsf{m}_2 \,, \; \mathsf{m}_{\bar{\mathsf{l}}}^{\; i1} \,, \; \widetilde{\mu} \, \big] \; + \; \mathsf{m}_{\bar{\mathsf{e}}}^{\; 1} \; \mathsf{m}_{\bar{\mathsf{e}}}^{\; 1} \,, \; \mathsf{m}_{\bar{\mathsf{e}}}^
                                                                                                                                                                           \frac{1}{16}~g_{2}^{2}~\left(c_{\gamma}~\overline{a_{e}}^{i2p}-s_{\gamma}~\widetilde{\mu}~\overline{y_{e}}^{i2p}\right)~\left(c_{\gamma}~a_{e}^{~i1p}-s_{\gamma}~\widetilde{\mu}~y_{e}^{~i1p}\right)~LF_{2,1,1,1,-1}\left[m_{\tilde{e}}^{~p},~m_{2},~m_{\tilde{l}}^{~i2},~m_{\tilde{l}}^{~i1}\right]-c_{\gamma}^{2}~m_{2}^{2}~c_{\gamma}^{2}~m_{2}^{2}~c_{\gamma}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}^{2}~m_{2}
                                                                                                                                                                                                                                                       g_2^2 \; y_e^{\text{ilp}} \; \left( \text{m}_2 \; \text{c}_{\text{Y}} + \text{s}_{\text{Y}} \; \widetilde{\mu} \right) \; \left( \text{c}_{\text{Y}} \; \overline{\text{a}_e}^{\text{i}2p} - \text{s}_{\text{Y}} \; \widetilde{\mu} \; \overline{y_e}^{\text{i}2p} \right) \; \text{LF}_{2,1,1,1,-1} \big[ \, \text{m}_{\tilde{\text{e}}}^{\; p} \,, \; \text{m}_2 \,, \; \text{m}_{\tilde{\text{l}}}^{\; \dot{1}2} \,, \; \widetilde{\mu} \, \big] \; + \; \text{constant} \; \left( \text{c}_{\text{Y}} \; \overline{\text{c}}_{\text{Y}} \; \overline{\text{c}}_{\text{Y}} \; \overline{\text{c}}_{\text{Y}} \; \overline{\text{c}}_{\text{Y}} \right) \; \text{LF}_{2,1,1,1,-1} \left[ \, \text{m}_{\tilde{\text{e}}}^{\; p} \,, \; \text{m}_2 \,, \; \text{m}_{\tilde{\text{l}}}^{\; \dot{1}2} \,, \; \widetilde{\mu} \, \right] \; + \; \text{constant} \; \left( \text{c}_{\text{Y}} \; \overline{\text{c}}_{\text{Y}} \; \overline{\text{c}}_{\text{Y
                                                                                                                                                                           \frac{1}{32} \; g_{1}^{\; 2} \; \overline{y_{e}}^{i \, 2p} \; \left( m_{1} \; c_{\gamma} + s_{\gamma} \; \widetilde{\mu} \right) \; \left( c_{\gamma} \; a_{e}^{\; i \, 1p} - s_{\gamma} \; \widetilde{\mu} \; y_{e}^{\; i \, 1p} \right) \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{1} \, , \; m_{2}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,-1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1,1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1} \big[ \, m_{\tilde{l}}^{\; i \, 1} \, , \; m_{1} \, , \; m_{2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1,1} \big[ \, m_{1}^{\; i \, 1} \, , \; m_{2} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1,1,1} \big[ \, m_{1}^{\; i \, 1} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1} \big[ \, m_{1}^{\; i \, 1} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1} \big[ \, m_{1}^{\; i \, 1} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1} \big[ \, m_{1}^{\; i \, 1} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{LF}_{2,1,1} \big[ \, m_{1}^{\; i \, 1} \, , \; \widetilde
                                                                                                                                                                                                                                                       g_2^2 \; \overline{y_e}^{i\, 2p} \; \left( \mathsf{m_2} \; c_{\scriptscriptstyle \Upsilon} + \mathsf{s}_{\scriptscriptstyle \Upsilon} \; \widetilde{\mu} \right) \; \left( c_{\scriptscriptstyle \Upsilon} \; a_e^{\; i\, 1p} - \mathsf{s}_{\scriptscriptstyle \Upsilon} \; \widetilde{\mu} \; y_e^{\; i\, 1p} \right) \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, \mathsf{m}_{\tilde{l}}^{\; i\, 1} \, , \; \mathsf{m}_2 \, , \; \mathsf{m}_{\tilde{e}}^{\; p} \, , \; \widetilde{\mu} \, \big] \; + \; \mathsf{s}_{\scriptscriptstyle \Upsilon} \; \widetilde{\mu} \, (\mathsf{m}_2 \; c_{\scriptscriptstyle \Upsilon} + \mathsf{s}_{\scriptscriptstyle \Upsilon} \; \widetilde{\mu}) \; \left( \mathsf{m}_2 \; a_e^{\; i\, 1p} - \mathsf{s}_{\scriptscriptstyle \Upsilon} \; \widetilde{\mu} \; \mathsf{m}_2 \, , \; \mathsf{m}_{\tilde{e}}^{\; p} \, \right) \; \mathsf{m}_2 \;
                                                                                                                                                                                 \frac{1}{32} \; g_{1}^{\; 2} \; y_{e}^{\; 11p} \; \left( m_{1} \; c_{\gamma} + s_{\gamma} \; \widetilde{\mu} \right) \; \left( c_{\gamma} \; \overline{a_{e}}^{\; 12p} - s_{\gamma} \; \widetilde{\mu} \; \overline{y_{e}}^{\; 12p} \right) \; LF_{2,1,1,1,-1} \left[ m_{\tilde{l}}^{\; 12} \; , \; m_{1} \; , \; m_{\tilde{e}}^{\; p} \; , \; \widetilde{\mu} \right] \; + \; c_{\gamma} \; \widetilde{\mu} \; .
                                                                                                                                                                                                                                                       g_{2}^{2}\;y_{e}^{\;i1p}\;\left(m_{2}\;c_{\gamma}+s_{\gamma}\;\widetilde{\mu}\right)\;\left(c_{\gamma}\;\overline{a_{e}}^{\;i2p}-s_{\gamma}\;\widetilde{\mu}\;\overline{y_{e}}^{\;i2p}\right)\;LF_{2,1,1,1,-1}\!\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;\widetilde{\mu}\right]\;+i2\pi\left[m_{\tilde{l}}^{\;i2},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p},\;m_{\tilde{e}}^{\;p}
                                                                                                                                                                                                                                 {\rm g_1}^2 \; {\rm g_2}^2 \; \left( - \, {\rm c_{\gamma}}^2 \, + \, {\rm s_{\gamma}}^2 \right) \; {\rm LF_{2,1,1,1,-2}} \big[ \, \tilde{\mu} \, , \; {\rm m_1} \, , \; {\rm m_2} \, , \; {\rm m_{\tilde{l}}}^{\dot{1} 2} \big] \; \delta_{\dot{1}\dot{1}\dot{2}} \, + \, {\rm constant}^2 \, , \; {\rm constant}^2 \,
                                                                                                                                                                                                                                 g_{1}^{\ 2} \ \overline{y_{e}}^{i2p} \ (m_{1} \ c_{\gamma} + s_{\gamma} \ \widetilde{\mu}) \ \left(c_{\gamma} \ a_{e}^{\ i1p} - s_{\gamma} \ \widetilde{\mu} \ y_{e}^{\ i1p}\right) \ LF_{2,1,1,1,-1} \left[\widetilde{\mu} \mbox{, } m_{1} \mbox{, } m_{\tilde{e}}^{\ p} \mbox{, } m_{\tilde{l}}^{\ i1}\right] - c_{\gamma} \ \widetilde{\mu} \ c_{\gamma} \ c_{\gamma} \ c_{\gamma} \ \widetilde{\mu} \ c_{\gamma} \ c_{\gamma}
                                                                                                                                                                                                                                                            g_{1}^{2}\;y_{e}^{\textrm{ilp}}\;\left(\textrm{m}_{1}\;c_{\gamma}+s_{\gamma}\;\widetilde{\mu}\right)\;\left(c_{\gamma}\;\overline{a_{e}}^{\textrm{i}2p}-s_{\gamma}\;\widetilde{\mu}\;\overline{y_{e}}^{\textrm{i}2p}\right)\;\mathsf{LF}_{2,1,1,1,-1}\!\left[\widetilde{\mu}\,,\;\mathsf{m}_{1}\,,\;\mathsf{m}_{\tilde{e}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;i2}\right]-c_{\gamma}^{2}\left(c_{\gamma}^{2}\;\overline{a_{e}}^{\textrm{i}2p}-c_{\gamma}^{2}\;\widetilde{\mu}\right)\;\mathsf{LF}_{2,1,1,1,-1}\left[\widetilde{\mu}\,,\;\mathsf{m}_{1}\,,\;\mathsf{m}_{\tilde{e}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;i2}\right]-c_{\gamma}^{2}\left(c_{\gamma}^{2}\;\overline{a_{e}}^{\textrm{i}2p}-c_{\gamma}^{2}\;\widetilde{\mu}\right)\;\mathsf{LF}_{2,1,1,1,-1}\left[\widetilde{\mu}\,,\;\mathsf{m}_{1}\,,\;\mathsf{m}_{\tilde{e}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;i2}\right]-c_{\gamma}^{2}\left(c_{\gamma}^{2}\;\overline{a_{e}}^{\textrm{i}2p}-c_{\gamma}^{2}\;\widetilde{\mu}\right)\;\mathsf{LF}_{2,1,1,1,-1}\left[\widetilde{\mu}\,,\;\mathsf{m}_{1}\,,\;\mathsf{m}_{\tilde{e}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;i2}\right]-c_{\gamma}^{2}\left(c_{\gamma}^{2}\;\overline{a_{e}}^{\textrm{i}2p}-c_{\gamma}^{2}\;\widetilde{\mu}\right)\;\mathsf{LF}_{2,1,1,1,-1}\left[\widetilde{\mu}\,,\;\mathsf{m}_{1}\,,\;\mathsf{m}_{\tilde{e}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^{\;p}\,,\;\mathsf{m}_{\tilde{l}}^
                                                                                                                                                                                 \frac{1}{32} \; g_{2}^{\; 2} \; \overline{y_{e}}^{\dagger 2p} \; \left( \mathsf{m}_{2} \; \mathsf{c}_{\curlyvee} + \mathsf{s}_{\curlyvee} \; \widetilde{\mu} \right) \; \left( \mathsf{c}_{\curlyvee} \; a_{e}^{\; \dagger 1p} - \mathsf{s}_{\curlyvee} \; \widetilde{\mu} \; y_{e}^{\; \dagger 1p} \right) \; \mathsf{LF}_{2,1,1,1,-1} \big[ \, \widetilde{\mu} \, , \; \mathsf{m}_{2} \, , \; \mathsf{m}_{\bar{e}}^{\; p} \, , \; \mathsf{m}_{\bar{1}}^{\; \dagger 1} \big] \; - \; \mathsf{m}_{\bar{e}}^{\; 1p} \; \mathsf{m}_{\bar{e}}^{\; 1p} \; \mathsf{m}_{\bar{e}}^{\; 1p} \; \mathsf{m}_{\bar{e}}^{\; 1p} \, , \; \mathsf{m}_{\bar{e}}^{\; 1p} \; \mathsf{m}_{\bar{e}}^{\; 
                                                                                                                                                                           \frac{1}{32} \; g_2{}^2 \; y_e{}^{\text{ilp}} \; \left( \text{m}_2 \; c_{_{Y}} + s_{_{Y}} \, \widetilde{\mu} \right) \; \left( c_{_{Y}} \, \overline{a_e}{}^{\text{i2p}} - s_{_{Y}} \, \widetilde{\mu} \, \overline{y_e}{}^{\text{i2p}} \right) \; \text{LF}_{2,1,1,1,-1} \big[ \widetilde{\mu} \, , \; \text{m}_2 \, , \; \text{m}_{\tilde{e}}{}^p \, , \; \text{m}_{\tilde{l}}{}^{\text{i2}} \big] \, \right)
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