```
C_{dW}^{\text{i1\_i2\_}} \rightarrow \frac{1}{16\,\pi^2} \, \left( -\,\frac{1}{48} \, \, g_2 \, \, c_{\gamma} \, \, \frac{1}{m_{\text{g}}^2} \, \left( \, s_{\gamma}^{\, 2} \, \, \overline{y_d}^{\text{pr}} \, \left( \, y_d^{\, \text{pi2}} \, \, y_d^{\, \text{i1r}} + 18 \, \, y_d^{\, \text{pr}} \, \, y_d^{\, \text{i1i2}} \right) \, + \, y_d^{\, \text{pi2}} \, \, \overline{y_u}^{\text{pr}} \, \, y_u^{\, \text{i1r}} \, \left( \, c_{\gamma}^{\, 2} \, + 3 \, \, s_{\gamma}^{\, 2} \right) \right) \, + \, y_d^{\, \text{pr}} \, \, y_u^{\, \text
                                                                                                                                           \frac{1}{8} \; g_2 \; c_{\gamma} \; s_{\gamma}^{\; 2} \; y_d^{\; pi2} \; \overline{y_u}^{pr} \; y_u^{\; i1r} \; \mathsf{LF}_{1,2} \left[ \, \mathsf{m}_{\scriptscriptstyle{\bar{\Phi}}} \, \right] \; + \; \frac{1}{144} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,1,\theta} \left[ \, \mathsf{m}_1 \, , \; \mathsf{m}_{\bar{\mathsf{q}}}^{\; i1} \, \right] \; - \; \frac{1}{144} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,1,\theta} \left[ \, \mathsf{m}_1 \, , \; \mathsf{m}_{\bar{\mathsf{q}}}^{\; i1} \, \right] \; - \; \frac{1}{144} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,1,\theta} \left[ \, \mathsf{m}_1 \, , \; \mathsf{m}_{\bar{\mathsf{q}}}^{\; i1} \, \right] \; - \; \frac{1}{144} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,1,\theta} \left[ \, \mathsf{m}_1 \, , \; \mathsf{m}_{\bar{\mathsf{q}}}^{\; i1} \, \right] \; - \; \frac{1}{144} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,1,\theta} \left[ \, \mathsf{m}_1 \, , \; \mathsf{m}_{\bar{\mathsf{q}}}^{\; i1} \, \right] \; - \; \frac{1}{144} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,1,\theta} \left[ \, \mathsf{m}_1 \, , \; \mathsf{m}_{\bar{\mathsf{q}}}^{\; i1} \, \right] \; - \; \frac{1}{144} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,1,\theta} \left[ \, \mathsf{m}_1 \, , \; \mathsf{m}_{\bar{\mathsf{q}}}^{\; i1} \, \right] \; - \; \frac{1}{144} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; 2} \; y
                                                                                                                                           \frac{1}{72} \; g_2 \; c_{\gamma} \; g_1{}^2 \; y_d{}^{\text{ili2}} \; \mathsf{LF}_{3,1,-1} \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \frac{1}{144} \; g_2 \; c_{\gamma} \; g_1{}^2 \; y_d{}^{\text{ili2}} \; \mathsf{LF}_{4,1,-2} \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; - \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big] \; + \; \mathsf{m}_{\tilde{\mathsf{q}}} \, \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q
                                                                                                                                                                                             \left[ c_{\gamma} g_{2}^{3} y_{d}^{i1i2} LF_{2,1,0} \left[ m_{2}, m_{\tilde{q}}^{-i1} \right] - \frac{1}{8} c_{\gamma} g_{2}^{3} y_{d}^{i1i2} LF_{3,1,-1} \left[ m_{2}, m_{\tilde{q}}^{-i1} \right] + \right] \right]
                                                                                                                                           \frac{3}{16}\;c_{\gamma}\;g_{2}^{\;3}\;y_{d}^{\;i1i2}\;\mathsf{LF_{4,1,-2}}\!\left[\mathsf{m_{2}},\;\mathsf{m_{\tilde{q}}}^{\;i1}\right]\,+\,\frac{1}{3}\;g_{2}\;c_{\gamma}\;g_{3}^{\;2}\;y_{d}^{\;i1i2}\;\mathsf{LF_{2,1,0}}\!\left[\mathsf{m_{3}},\;\mathsf{m_{\tilde{q}}}^{\;i1}\right]\,-\,\frac{1}{3}\;g_{2}^{\;2}\;c_{\gamma}\;g_{3}^{\;2}\;y_{d}^{\;i1i2}\;\mathsf{LF_{2,1,0}}\!\left[\mathsf{m_{3}},\;\mathsf{m_{\tilde{q}}}^{\;i1}\right]\,-\,\frac{1}{3}\;g_{2}^{\;2}\;c_{\gamma}^{\;2}\;g_{3}^{\;2}\;y_{d}^{\;i1i2}\;\mathsf{LF_{2,1,0}}\!\left[\mathsf{m_{3}},\;\mathsf{m_{\tilde{q}}}^{\;i1}\right]
                                                                                                                                                                               g_2 c_{\gamma} g_3^2 y_d^{i1i2} LF_{3,1,-1}[m_3, m_{\tilde{q}}^{i1}] + \frac{1}{3} g_2 c_{\gamma} g_3^2 y_d^{i1i2} LF_{4,1,-2}[m_3, m_{\tilde{q}}^{i1}] -
                                                                                                                                                                                    g_2\;c_{\gamma}\;\overline{y_d}^{\text{pr}}\;y_d^{\text{pi2}}\;y_d^{\text{ilr}}\;\mathsf{LF_{3,1,-1}}\big[\tilde{\mu}\,,\,\mathsf{m_{\tilde{d}}}^{\text{r}}\big]\,+\,\frac{1}{8}\;g_2\;c_{\gamma}\;\overline{y_d}^{\text{pr}}\;y_d^{\text{pi2}}\;y_d^{\text{ilr}}\;\mathsf{LF_{4,1,-2}}\big[\tilde{\mu}\,,\,\mathsf{m_{\tilde{d}}}^{\text{r}}\big]\,-\,\frac{1}{8}\;g_2^{\text{r}}\;p_d^{\text{pi2}}\;y_d^{\text{pi3}}\;p_d^{\text{r}}\,\mathsf{LF_{4,1,-2}}\big[\tilde{\mu}\,,\,\mathsf{m_{\tilde{d}}}^{\text{r}}\big]\,-\,\frac{1}{8}\;g_2^{\text{r}}\;p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{\text{r}}\,p_d^{
                                                                                                                                                                                    g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{3,1,-1} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; i1r} \; LF_{4,1,-2} \big[ \tilde{\mu} \, , \; m_{\tilde{u}}^{\; r} \big] \; + \; \frac{1}{8} \; g_2 \; c_{\gamma} \; y_d^{\; pi2} \; \overline{y_u}^{\; pr} \; y_u^{\; pr} 
                                                                                                                                                                                                      g_2 \; m_1 \; g_1^{\; 2} \; \left( c_\gamma \; a_d^{\; \text{ili2}} - s_\gamma \; \widetilde{\mu} \; y_d^{\; \text{ili2}} \right) \; LF_{2,1,1,0} \left[ m_1 \, , \; m_{\tilde{d}}^{\; \text{il}} , \; m_{\tilde{q}}^{\; \text{il}} \right] \; + \; c_1^{\; \text{ili2}} \; , \; c_2^{\; \text{ili2}} \; , \; c_3^{\; \text{ili
                                                                                                                                               \frac{1}{144} g_2 m_1 g_1^2 \left(-c_{\gamma} a_d^{i1i2} + s_{\gamma} \tilde{\mu} y_d^{i1i2}\right) LF_{2,2,1,-1}[m_1, m_{\tilde{d}}^{i2}, m_{\tilde{q}}^{i1}] +
                                                                                                                                           \frac{1}{72} g_2 m_1 g_1^2 \left( -c_{\gamma} a_d^{i1i2} + s_{\gamma} \tilde{\mu} y_d^{i1i2} \right) LF_{3,1,1,-1} \left[ m_1, m_{\tilde{d}}^{i2}, m_{\tilde{q}} \right]
                                                                                                                                                                                                           _{ar{4}} g_2 m_1 g_1^2 \left(c_{\gamma} a_d^{i1i2} - s_{\gamma} \widetilde{\mu} y_d^{i1i2}\right) LF_{2,2,1,-1}\left[m_1, m_{ar{q}}^{i1}, m_{ar{d}}^{i2}\right] +
                                                                                                                                           \frac{1}{24} g_2 c_{\gamma} g_1^2 y_d^{i1i2} LF_{1,1,1,0} [m_1, m_{\tilde{q}}^{i1}, \tilde{\mu}] - \frac{1}{12} g_2 c_{\gamma} g_1^2 y_d^{i1i2} LF_{2,1,1,-1} [m_1, m_{\tilde{q}}^{i1}, \tilde{\mu}] - \frac{1}{12} g_1^2 g_2^2 c_{\gamma} g_1^2 y_d^{i1i2} LF_{2,1,1,-1} [m_1, m_{\tilde{q}}^{i1}, \tilde{\mu}] - \frac{1}{12} g_1^2 g_1
                                                                                                                                           \frac{1}{24} \; g_2 \; m_1 \; s_\gamma \, \widetilde{\mu} \; g_1^2 \; y_d^{\; \text{ili2}} \; \mathsf{LF}_{2,1,1,0} \left[ \; m_1 \, , \; m_{\tilde{q}}^{\; \; \text{il}} \, , \; \widetilde{\mu} \, \right] \; + \; \frac{1}{24} \; g_2 \; c_\gamma \; g_1^2 \; y_d^{\; \text{ili2}} \; \mathsf{LF}_{3,1,1,-2} \left[ \; m_1 \, , \; m_{\tilde{q}}^{\; \; \text{il}} \, , \; \widetilde{\mu} \, \right] \; + \; \frac{1}{24} \; g_2^2 \; c_\gamma \; g_1^2 \; y_d^{\; \; \text{ili2}} \; \mathsf{LF}_{3,1,1,-2} \left[ \; m_1 \, , \; m_{\tilde{q}}^{\; \; \text{il}} \, , \; \widetilde{\mu} \, \right] \; + \; \frac{1}{24} \; g_2^2 \; c_\gamma \; g_1^2 \; y_d^{\; \; \; \text{ili2}} \; \mathsf{LF}_{3,1,1,-2} \left[ \; m_1 \, , \; m_{\tilde{q}}^{\; \; \text{ili2}} \, , \; \widetilde{\mu} \, \right] \; + \; \frac{1}{24} \; g_2^2 \; c_\gamma \; g_1^2 \; y_d^{\; \; \; \; \text{ili2}} \; \mathsf{LF}_{3,1,1,-2} \left[ \; m_1 \, , \; m_{\tilde{q}}^{\; \; \; \text{ili2}} \, , \; \widetilde{\mu} \, \right] \; + \; \frac{1}{24} \; g_2^2 \; c_\gamma \; g_1^2 \; y_d^{\; \; \; \; \text{ili2}} \; \mathsf{LF}_{3,1,1,-2} \left[ \; m_1 \, , \; m_{\tilde{q}}^{\; \; \; \text{ili2}} \, , \; \widetilde{\mu} \, \right] \; + \; \frac{1}{24} \; g_2^2 \; c_\gamma \; g_1^2 \; y_d^{\; \; \; \; \text{ili2}} \; \mathsf{LF}_{3,1,1,-2} \left[ \; m_1 \, , \; m_{\tilde{q}}^{\; \; \; \text{ili2}} \, , \; \widetilde{\mu} \, \right] \; + \; \frac{1}{24} \; g_2^2 \; c_\gamma \; g_1^2 \; y_d^{\; \; \; \; \text{ili2}} \; \mathsf{LF}_{3,1,1,-2} \left[ \; m_1 \, , \; m_{\tilde{q}}^{\; \; \; \text{ili2}} \, , \; \widetilde{\mu} \, \right] \; + \; \frac{1}{24} \; g_1^2 \; s_1^2 \; s
                                                                                                                                               \frac{1}{24} \; \mathsf{g_2} \; \mathsf{m_1} \; \mathsf{s_{\scriptscriptstyle Y}} \; \tilde{\mu} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{3,1,1,-1}} \big[ \mathsf{m_1}, \; \mathsf{m_{\tilde{q}}^{\mathsf{il}}}, \; \tilde{\mu} \big] + \frac{1}{24} \; \mathsf{g_2} \; \mathsf{c_{\scriptscriptstyle Y}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{2,2,1,-2}} \big[ \mathsf{m_1}, \; \tilde{\mu}, \; \mathsf{m_{\tilde{d}}^{\mathsf{il}2}} \big] \; + \\ \frac{1}{24} \; \mathsf{g_2} \; \mathsf{c_{\scriptscriptstyle Y}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{2,2,1,-2}} \big[ \mathsf{m_1}, \; \tilde{\mu}, \; \mathsf{m_{\tilde{d}}^{\mathsf{il}2}} \big] \; + \\ \frac{1}{24} \; \mathsf{g_2} \; \mathsf{c_{\scriptscriptstyle Y}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{2,2,1,-2}} \big[ \mathsf{m_1}, \; \tilde{\mu}, \; \mathsf{m_{\tilde{d}}^{\mathsf{il}2}} \big] \; + \\ \frac{1}{24} \; \mathsf{g_2} \; \mathsf{c_{\scriptscriptstyle Y}} \; \mathsf{g_1}^2 \; \mathsf{c_{\scriptscriptstyle Y}} \; \mathsf{g_2}^2 \; \mathsf
                                                                                                                                                                                                      g_2 \; m_1 \; s_{\gamma} \; \widetilde{\mu} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-1} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{d}}^{\; i2} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; 2} \; y_d^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1i2} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{q}}^{\; i1i2} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_1 \; , \; \widetilde{\mu} \; , \; \widetilde{\mu} \; \right] \; + \; \frac{1}{48} \; g_2 \; c_{\gamma} \; g_1^{\; i1i2} \; \mathsf{LF}_{2,2,1,-2} \left[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_2 \; , \; \widetilde{\mu} \; , \; \widetilde{\mu} \; \right
                                                                                                                                               \frac{1}{48} \; \mathsf{g_2} \; \mathsf{m_1} \; \mathsf{s_{\gamma}} \; \widetilde{\boldsymbol{\mu}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{2,2,1,-1}} \big[ \, \mathsf{m_1}, \, \widetilde{\boldsymbol{\mu}}, \, \mathsf{m_{\tilde{q}}}^{\mathsf{il}} \big] \; - \; \frac{1}{8} \; \mathsf{c_{\gamma}} \; \mathsf{g_2}^3 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{1,1,1,0}} \big[ \, \mathsf{m_2}, \, \mathsf{m_{\tilde{q}}}^{\mathsf{il}}, \, \widetilde{\boldsymbol{\mu}} \, \big] \; - \; \mathsf{m_{\tilde{q}}}^{\mathsf{il}} \; \mathsf{m_{\tilde{q
                                                                                                                                                                                    c_{\gamma}\,g_{2}{}^{3}\,y_{d}{}^{\text{ili2}}\,\mathsf{LF}_{2,1,1,-1}\big[\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{q}}{}^{\text{il}}\,,\,\tilde{\mu}\,\big]\,+\,\frac{1}{8}\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,y_{d}{}^{\text{ili2}}\,\mathsf{LF}_{2,1,1,0}\big[\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{q}}{}^{\text{il}}\,,\,\tilde{\mu}\,\big]\,+\,\frac{1}{8}\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,y_{d}{}^{\text{ili2}}\,\mathsf{LF}_{2,1,1,0}\big[\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{q}}{}^{\text{il}}\,,\,\tilde{\mu}\,\big]\,+\,\frac{1}{8}\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,y_{d}{}^{\text{ili2}}\,\mathsf{LF}_{2,1,1,0}\big[\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{q}}{}^{\text{il}}\,,\,\tilde{\mu}\,\big]\,+\,\frac{1}{8}\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,y_{d}{}^{\text{ili2}}\,\mathsf{LF}_{2,1,1,0}\big[\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{q}}{}^{\text{il}}\,,\,\tilde{\mu}\,\big]\,+\,\frac{1}{8}\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,y_{d}{}^{\text{ili2}}\,\mathsf{LF}_{2,1,1,0}\big[\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{q}}{}^{\text{il}}\,,\,\tilde{\mu}\,\big]\,+\,\frac{1}{8}\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,y_{d}{}^{\text{ili2}}\,\mathsf{LF}_{2,1,1,0}\big[\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{q}}{}^{\text{il}}\,,\,\tilde{\mu}\,\big]\,+\,\frac{1}{8}\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,y_{d}{}^{\text{ili2}}\,\mathsf{LF}_{2,1,1,0}\big[\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{q}}{}^{\text{il}}\,,\,\tilde{\mu}\,\big]\,+\,\frac{1}{8}\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,y_{d}{}^{\text{ili2}}\,\mathsf{LF}_{2,1,1,0}\big[\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{q}}{}^{\text{il}}\,,\,\tilde{\mu}\,\big]\,+\,\frac{1}{8}\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,y_{d}{}^{\text{ili2}}\,\mathsf{LF}_{2,1,1,0}\big[\mathsf{m}_{2}\,,\,\mathsf{m}_{\tilde{q}}\,\,,\,\tilde{\mu}\,\big]\,+\,\frac{1}{8}\,\mathsf{m}_{2}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,\tilde{\mu}\,g_{2}{}^{3}\,s_{\gamma}\,
                                                                                                                                                                               c_{\gamma} \; g_{2}{}^{3} \; y_{d}{}^{\text{ili2}} \; \mathsf{LF}_{3,1,1,-2} \big[ \mathsf{m}_{2} \,, \; \mathsf{m}_{\tilde{q}}{}^{\text{il}} \,, \; \tilde{\mu} \big] \; + \; \frac{3}{8} \; \mathsf{m}_{2} \; \mathsf{s}_{\gamma} \; \tilde{\mu} \; g_{2}{}^{3} \; y_{d}{}^{\text{ili2}} \; \mathsf{LF}_{3,1,1,-1} \big[ \mathsf{m}_{2} \,, \; \mathsf{m}_{\tilde{q}}{}^{\text{il}} \,, \; \tilde{\mu} \big] \; + \; \frac{3}{8} \; \mathsf{m}_{2} \; \mathsf{s}_{\gamma} \; \tilde{\mu} \; g_{2}{}^{3} \; y_{d}{}^{\text{ili2}} \; \mathsf{LF}_{3,1,1,-1} \big[ \mathsf{m}_{2} \,, \; \mathsf{m}_{\tilde{q}}{}^{\text{il}} \,, \; \tilde{\mu} \big] \; + \; \frac{3}{8} \; \mathsf{m}_{2} \; \mathsf{s}_{\gamma} \; \tilde{\mu} \; g_{2}{}^{3} \; y_{d}{}^{\text{ili2}} \; \mathsf{LF}_{3,1,1,-1} \big[ \mathsf{m}_{2} \,, \; \mathsf{m}_{\tilde{q}}{}^{\text{il}} \,, \; \tilde{\mu} \big] \; + \; \frac{3}{8} \; \mathsf{m}_{2} \; \mathsf{s}_{\gamma} \; \tilde{\mu} \; g_{2}{}^{3} \; y_{d}{}^{\text{ili2}} \; \mathsf{LF}_{3,1,1,-1} \big[ \mathsf{m}_{2} \,, \; \mathsf{m}_{\tilde{q}}{}^{\text{il}} \,, \; \tilde{\mu} \big] \; + \; \frac{3}{8} \; \mathsf{m}_{2} \; \mathsf{s}_{\gamma} \; \tilde{\mu} \; g_{2}{}^{3} \; \mathsf{s}_{\gamma} \; \tilde{\mu} \; \tilde{\mu
                                                                                                                                                                                             \left\{ c_{\gamma} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-2}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i2} LF_{2,2,1,-1}[m_{2}, \tilde{\mu}, m_{\tilde{q}}^{i1}] + \frac{3}{16} m_{2} s_{\gamma} \tilde{\mu} g_{2}^{3} y_{d}^{i1i} + \frac
                                                                                                                                                                           g_2 \; m_3 \; g_3^{\; 2} \; \left( - \, c_{_{\Upsilon}} \; a_d^{\; \text{ili2}} \, + \, s_{_{\Upsilon}} \; \widetilde{\mu} \; y_d^{\; \text{ili2}} \right) \; \mathsf{LF}_{2,\text{l,1,0}} \! \left[ \, m_3 \, , \; m_{\tilde{d}}^{\; \text{il}} \, , \; m_{\tilde{q}}^{\; \text{il}} \, \right] \; + \, c_{_{\Upsilon}} \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1) \; (1)
                                                                                                                                                                                         \mathsf{g_2} \; \mathsf{m_3} \; \mathsf{g_3}^2 \; \left( \mathsf{c_{_{Y}}} \; \mathsf{a_d}^{\text{ili2}} - \mathsf{s_{_{Y}}} \, \tilde{\mu} \; \mathsf{y_d}^{\text{ili2}} \right) \; \mathsf{LF_{2,2,1,_{-1}}} \big[ \, \mathsf{m_3} \, , \; \mathsf{m_{\tilde{q}}}^{\text{il}} , \; \mathsf{m_{\tilde{q}}}^{\text{il}} \big] \; + \; \mathsf{m_{\tilde{q}}}^{\text{il}} + \; \mathsf{m_{\tilde{q}}}^{\text{il}} \, \mathsf{m_{\tilde{q}}}^{\text{il}} + \; \mathsf{m_{\tilde{q}}}^{\text{il}} \, \mathsf{m_{\tilde{q}}}^{\text{
                                                                                                                                                                                    g_2 \; m_3 \; g_3^{\; 2} \; \left( - \, c_{\scriptscriptstyle \Upsilon} \; a_d^{\; \text{iii} \, 2} \, + \, s_{\scriptscriptstyle \Upsilon} \; \widetilde{\mu} \; y_d^{\; \text{iii} \, 2} \right) \; \mathsf{LF}_{2,2,1,,-1} \big[ \, m_3 \, , \; m_{\bar{q}}^{\; \, \text{ii}} \, , \; m_{\bar{d}}^{\; \, \text{ii}} \, \big] \; + \\
                                                                                                                                                                                                           g_2\;\widetilde{\mu}\;y_d^{\text{pi2}}\;y_u^{\text{ilr}}\;\left(-\,s_\gamma\;\overline{a_u}^{\text{pr}}\,+\,\widetilde{\mu}\;c_\gamma\;\overline{y_u}^{\text{pr}}\right)\;\mathsf{LF}_{2,2,1,-1}\!\left[\,m_{\tilde{q}}^{\phantom{\tilde{q}}\,p}\,,\;\widetilde{\mu}\,,\;m_{\tilde{u}}^{\phantom{\tilde{u}}\,r}\,\right]\;+
                                                                                                                                                                                                  \mathsf{g_2}\; \tilde{\boldsymbol{\mu}}\; \mathsf{y_d}^{\mathsf{pi2}}\; \mathsf{y_u}^{\mathsf{iir}}\; \left(\mathsf{s_{\scriptscriptstyle Y}}\; \overline{\mathsf{a_u}}^{\mathsf{pr}} - \tilde{\boldsymbol{\mu}}\; \mathsf{c_{\scriptscriptstyle Y}}\; \overline{\mathsf{y_u}}^{\mathsf{pr}}\right) \; \mathsf{LF_{2,2,1,-1}}\big[\mathsf{m_{\check{u}}}^{\mathsf{r}},\; \tilde{\boldsymbol{\mu}},\; \mathsf{m_{\check{q}}}^{\mathsf{p}}\big] \; - \; \tilde{\boldsymbol{\mu}}\; \mathsf{a_{\scriptscriptstyle Y}}^{\mathsf{pr}} + \; \tilde{\boldsymbol{\mu}}\; \mathsf{a_{\scriptscriptstyle 
                                                                                                                                               \frac{1}{12} \; \mathsf{g_2} \; \mathsf{c_{\gamma}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{2,1,1,-1}} \big[ \tilde{\mu} \;, \; \mathsf{m_1} \;, \; \mathsf{m_{\tilde{d}}}^{\mathsf{il}2} \big] \; + \\ \frac{1}{12} \; \mathsf{g_2} \; \mathsf{c_{\gamma}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{3,1,1,-2}} \big[ \tilde{\mu} \;, \; \mathsf{m_1} \;, \; \mathsf{m_{\tilde{d}}}^{\mathsf{il}2} \big] \; + \\ \frac{1}{12} \; \mathsf{g_2} \; \mathsf{c_{\gamma}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{3,1,1,-2}} \big[ \tilde{\mu} \;, \; \mathsf{m_1} \;, \; \mathsf{m_{\tilde{d}}}^{\mathsf{il}2} \big] \; + \\ \frac{1}{12} \; \mathsf{g_2} \; \mathsf{c_{\gamma}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{3,1,1,-2}} \big[ \tilde{\mu} \;, \; \mathsf{m_1} \;, \; \mathsf{m_{\tilde{d}}}^{\mathsf{ili2}} \big] \; + \\ \frac{1}{12} \; \mathsf{g_2} \; \mathsf{c_{\gamma}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{3,1,1,-2}} \big[ \tilde{\mu} \;, \; \mathsf{m_1} \;, \; \mathsf{m_{\tilde{d}}}^{\mathsf{ili2}} \big] \; + \\ \frac{1}{12} \; \mathsf{g_2} \; \mathsf{c_{\gamma}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{3,1,1,-2}} \big[ \tilde{\mu} \;, \; \mathsf{m_1} \;, \; \mathsf{m_{\tilde{d}}}^{\mathsf{ili2}} \big] \; + \\ \frac{1}{12} \; \mathsf{g_2} \; \mathsf{c_{\gamma}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{3,1,1,-2}} \big[ \tilde{\mu} \;, \; \mathsf{m_1} \;, \; \mathsf{m_{\tilde{d}}}^{\mathsf{ili2}} \big] \; + \\ \frac{1}{12} \; \mathsf{g_2} \; \mathsf{c_{\gamma}} \; \mathsf{g_1}^2 \; \mathsf{g_2} \; \mathsf{g_2}^2 \; \mathsf{g_3}^2 \; \mathsf{g_3}^2 \; + \\ \frac{1}{12} \; \mathsf{g_3} \; \mathsf{g_3}^2 \; 
                                                                                                                                           \frac{1}{12} g_2 m_1 s_{\gamma} \tilde{\mu} g_1^2 y_d^{i1i2} LF_{3,1,1,-1} [\tilde{\mu}, m_1, m_{\tilde{d}}^{i2}] -
                                                                                                                                               \frac{1}{24} \; \mathsf{g_2} \; \mathsf{c_{\gamma}} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{2,1,1,-1}} \big[ \widetilde{\mu} \,, \; \mathsf{m_1} \,, \; \mathsf{m_{\tilde{q}}}^{\mathsf{il}} \big] \; - \; \frac{1}{24} \; \mathsf{g_2} \; \mathsf{m_1} \; \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{2,1,1,0}} \big[ \widetilde{\mu} \,, \; \mathsf{m_1} \,, \; \mathsf{m_{\tilde{q}}}^{\mathsf{il}} \big] \; + \; \frac{1}{24} \; \mathsf{g_2} \; \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \mathsf{g_1}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{2,1,1,0}} \big[ \widetilde{\mu} \,, \; \mathsf{m_1} \,, \; \mathsf{m_{\tilde{q}}}^{\mathsf{il}} \big] \; + \; \frac{1}{24} \; \mathsf{g_2} \; \mathsf{m_2} \; \mathsf{s_{\gamma}} \; \widetilde{\mu} \; \mathsf{g_2}^2 \; \mathsf{y_d}^{\mathsf{ili2}} \; \mathsf{LF_{2,1,1,0}} \big[ \widetilde{\mu} \,, \; \mathsf{m_1} \,, \; \mathsf{m_{\tilde{q}}}^{\mathsf{il}} \big] \; + \; \frac{1}{24} \; \mathsf{g_2} \; \mathsf{m_2}^2 \; \mathsf{g_2}^2 \; \mathsf{m_2}^2 \; \mathsf{g_2}^2 \; \mathsf{g_3}^2 \;
                                                                                                                                           \frac{1}{8} \; \mathsf{c_{Y}} \; \mathsf{g_{2}}^{3} \; \mathsf{y_{d}}^{\mathtt{ili2}} \; \mathsf{LF_{2,1,1,-1}} \big[ \, \widetilde{\mu} \,, \; \mathsf{m_{2}} \,, \; \mathsf{m_{\tilde{q}}}^{\mathtt{il}} \big] \; + \; \frac{1}{8} \; \mathsf{m_{2}} \; \mathsf{s_{Y}} \, \widetilde{\mu} \; \mathsf{g_{2}}^{3} \; \mathsf{y_{d}}^{\mathtt{ili2}} \; \mathsf{LF_{2,1,1,0}} \big[ \, \widetilde{\mu} \,, \; \mathsf{m_{2}} \,, \; \mathsf{m_{\tilde{q}}}^{\mathtt{il}} \big] \; + \; \frac{1}{8} \; \mathsf{m_{2}} \; \mathsf{s_{Y}} \, \widetilde{\mu} \; \mathsf{g_{2}}^{3} \; \mathsf{y_{d}}^{\mathtt{ili2}} \; \mathsf{LF_{2,1,1,0}} \big[ \, \widetilde{\mu} \,, \; \mathsf{m_{2}} \,, \; \mathsf{m_{\tilde{q}}}^{\mathtt{il}} \big] \; + \; \frac{1}{8} \; \mathsf{m_{2}} \; \mathsf{s_{Y}} \, \widetilde{\mu} \; \mathsf{g_{2}}^{3} \; \mathsf{y_{d}}^{\mathtt{ili2}} \; \mathsf{LF_{2,1,1,0}} \big[ \, \widetilde{\mu} \,, \; \mathsf{m_{2}} \,, \; \mathsf{m_{\tilde{q}}}^{\mathtt{il}} \big] \; + \; \frac{1}{8} \; \mathsf{m_{2}} \; \mathsf{s_{Y}} \, \widetilde{\mu} \; \mathsf{g_{2}}^{3} \; \mathsf{y_{d}}^{\mathtt{ili2}} \; \mathsf{LF_{2,1,1,0}} \big[ \, \widetilde{\mu} \,, \; \mathsf{m_{2}} \,, \; \mathsf{m_{\tilde{q}}}^{\mathtt{il}} \big] \; + \; \frac{1}{8} \; \mathsf{m_{2}} \; \mathsf{s_{Y}} \, \widetilde{\mu} \; \mathsf{g_{2}}^{3} \; \mathsf{y_{d}}^{\mathtt{ili2}} \; \mathsf{LF_{2,1,1,0}} \big[ \, \widetilde{\mu} \,, \; \mathsf{m_{2}} \,, \; \mathsf{m_{\tilde{q}}}^{\mathtt{il}} \big] \; + \; \frac{1}{8} \; \mathsf{m_{2}} \; \mathsf{s_{Y}} \, \widetilde{\mu} \; \mathsf{g_{2}}^{3} \; \mathsf{y_{d}}^{\mathtt{ili2}} \; \mathsf{LF_{2,1,1,0}} \big[ \, \widetilde{\mu} \,, \; \mathsf{m_{2}} \,, \; \mathsf{m_{\tilde{q}}}^{\mathtt{il}} \big] \; + \; \frac{1}{8} \; \mathsf{m_{2}} \; \mathsf{s_{Y}} \, \widetilde{\mu} \; \mathsf{g_{2}}^{3} \; \mathsf{y_{d}}^{\mathtt{ili2}} \; \mathsf{LF_{2,1,1,0}} \big[ \, \widetilde{\mu} \,, \; \mathsf{m_{2}} \,, \; \mathsf{m_{\tilde{q}}}^{\mathtt{il}} \big] \; + \; \frac{1}{8} \; \mathsf{m_{2}} \; \mathsf{s_{Y}} \, \widetilde{\mu} \; \mathsf{g_{2}}^{3} \; \mathsf{y_{d}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; \mathsf{g_{2}}^{\mathtt{ili2}} \; 
                                                                                                                                                                               g_2 \; \widetilde{\mu} \; y_d^{\text{pi2}} \; y_u^{\text{ilr}} \; \left( - \, s_\gamma \; \overline{a_u}^{\text{pr}} + \widetilde{\mu} \; c_\gamma \; \overline{y_u}^{\text{pr}} \right) \; \text{LF}_{2,\text{1,1,0}} \! \left[ \, \widetilde{\mu} \, , \; m_{\tilde{q}}^{\; p} \, , \; m_{\tilde{u}}^{\; r} \, \right] \; + \\
                                                                                                                                                                               g_2 \; \widetilde{\mu} \; y_d^{\text{pi2}} \; y_u^{\text{ilr}} \; \left( - \, s_{\gamma} \; \overline{a_u}^{\text{pr}} + \widetilde{\mu} \; c_{\gamma} \; \overline{y_u}^{\text{pr}} \right) \; LF_{3,1,1,-1} \left[ \, \widetilde{\mu} \, , \; m_{\widetilde{q}}^{\; \; p} \, , \; m_{\widetilde{u}}^{\; \; r} \, \right] \right)
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