```
C_{uW}^{\text{i1}\_\text{i2}\_} \to \frac{1}{16\,\pi^2} \, \left( -\,\frac{1}{48} \, \, g_2 \, \, s_\gamma \, \, \frac{1}{m_\text{o}^2} \, \left( \overline{y_d}^\text{pr} \, \, y_d^{\,\text{i1r}} \, \, y_u^{\,\text{pi2}} \, \left( 3 \, \, c_\gamma^{\,\, 2} + s_\gamma^{\,\, 2} \right) \, + \, c_\gamma^{\,\, 2} \, \, \overline{y_u}^\text{pr} \, \left( y_u^{\,\text{pi2}} \, \, y_u^{\,\,\text{i1r}} + 18 \, \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\text{i1i2}} \right) \right) \, + \, c_\gamma^{\,\, 2} \, \, \overline{y_u}^\text{pr} \, \left( y_u^{\,\,\text{pi2}} \, \, y_u^{\,\,\text{i1r}} + 18 \, \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\text{i1i2}} \right) \right) \, + \, c_\gamma^{\,\, 2} \, \, \overline{y_u}^\text{pr} \, \left( y_u^{\,\,\text{pi2}} \, \, y_u^{\,\,\text{i1r}} + 18 \, \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\text{i1i2}} \right) \right) \, + \, c_\gamma^{\,\, 2} \, \, \overline{y_u}^\text{pr} \, \left( y_u^{\,\,\text{pi2}} \, \, y_u^{\,\,\text{i1r}} + 18 \, \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\text{i1i2}} \right) \right) \, + \, c_\gamma^{\,\, 2} \, \, \overline{y_u}^\text{pr} \, \left( y_u^{\,\,\text{pi2}} \, \, y_u^{\,\,\text{i1r}} + 18 \, \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\text{i1i2}} \right) \right) \, + \, c_\gamma^{\,\, 2} \, \, \overline{y_u}^\text{pr} \, \left( y_u^{\,\,\text{pi2}} \, \, y_u^{\,\,\text{i1r}} + 18 \, \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\text{i1i2}} \right) \right) \, + \, c_\gamma^{\,\, 2} \, \, \overline{y_u}^\text{pr} \, \left( y_u^{\,\,\text{pi2}} \, \, y_u^{\,\,\text{i1r}} + 18 \, \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\text{i1r}} \right) \, + \, c_\gamma^{\,\, 2} \, \, \overline{y_u}^\text{pr} \, \, y_u^{\,\,\text{i1r}} + 18 \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\text{i1r}} + 18 \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\,\text{pr}} \, \, y_u^{\,\,\text{pr}} \, \, y_u^{\,\,\text{pr}} \, 
                                                                                                                                                  \frac{1}{8}\;g_{2}\;s_{\gamma}\;c_{\gamma}^{\;2}\;\overline{y_{d}}^{pr}\;y_{d}^{\;i1r}\;y_{u}^{\;pi2}\;\mathsf{LF}_{1,2}\left[\,\mathsf{m}_{\scriptscriptstyle{\bar{\Phi}}}\,\right]\;+\;\frac{1}{144}\;g_{2}\;s_{\gamma}\;g_{1}^{\;2}\;y_{u}^{\;i1i2}\;\mathsf{LF}_{2,1,0}\left[\,\mathsf{m}_{1}\,,\;\mathsf{m}_{\bar{q}}^{\;i1}\,\right]\;-\;\mathsf{LF}_{2,1,0}\left[\,\mathsf{m}_{1}\,,\;\mathsf{m}_{\bar{q}}^{\;i1}\,\right]\;
                                                                                                                                                  \frac{1}{72} \; g_2 \; s_\gamma \; g_1^{\; 2} \; y_u^{\; \text{ili2}} \; \mathsf{LF}_{3,1,-1} \big[ \, \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}^{\; \text{il}} \, \big] \; + \; \frac{1}{144} \; g_2 \; s_\gamma \; g_1^{\; 2} \; y_u^{\; \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}}}^{\; \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}_
                                                                                                                                                                                                  _{	ilde{5}}^{	ilde{5}} \, {\sf S}_{ee} \, {\sf g_2}^3 \, {\sf y_u}^{	ext{i1i2}} \, {\sf LF_{2,1,0}} \big[ \, {\sf m_2}, \, {\sf m_{	ilde{q}}}^{	ilde{i1}} \big] \, - \, rac{1}{8} \, {\sf S}_{ee} \, {\sf g_2}^3 \, {\sf y_u}^{	ilde{i1i2}} \, {\sf LF_{3,1,-1}} \big[ \, {\sf m_2}, \, {\sf m_{	ilde{q}}}^{	ilde{i1}} \big] \, + \, {\sf I}_{	ilde{5}}^{	ilde{5}} \, {\sf m_{	ilde{q}}}^{	ilde{5}} 
                                                                                                                                                  \frac{3}{16}\;\mathsf{S}_{\mathsf{Y}}\;\mathsf{g_{2}}^{3}\;\mathsf{y_{u}}^{\mathsf{ili2}}\;\mathsf{LF_{4,1,-2}}\!\left[\mathsf{m_{2}}\;,\;\mathsf{m_{\tilde{q}}}^{\mathsf{il}}\right]\;+\;\frac{1}{3}\;\mathsf{g_{2}}\;\mathsf{S}_{\mathsf{Y}}\;\mathsf{g_{3}}^{2}\;\mathsf{y_{u}}^{\mathsf{ili2}}\;\mathsf{LF_{2,1,0}}\!\left[\mathsf{m_{3}}\;,\;\mathsf{m_{\tilde{q}}}^{\mathsf{il}}\right]\;-\;\mathsf{m_{2}}^{\mathsf{il}}\;\mathsf{m_{3}}\;\mathsf{m_{2}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf{m_{3}}\;\mathsf
                                                                                                                                                                                             g_2 \, s_{\gamma} \, g_3^2 \, y_u^{\, i \, 1 \, i \, 2} \, LF_{3, 1, -1} \big[ m_3, \, m_{\tilde{q}}^{\, i \, 1} \big] + \frac{1}{3} \, g_2 \, s_{\gamma} \, g_3^2 \, y_u^{\, i \, 1 \, i \, 2} \, LF_{4, 1, -2} \big[ m_3, \, m_{\tilde{q}}^{\, i \, 1} \big] - \frac{1}{3} \, g_3^2 \, y_u^{\, i \, 1 \, i \, 2} \, LF_{4, 1, -2} \big[ m_3, \, m_{\tilde{q}}^{\, i \, 1} \big] - \frac{1}{3} \, g_3^2 \, y_u^{\, i \, 1 \, i \, 2} \, LF_{4, 1, -2} \big[ m_3, \, m_{\tilde{q}}^{\, i \, 1} \big] - \frac{1}{3} \, g_3^2 \, y_u^{\, i \, 1 \, i \, 2} \, LF_{4, 1, -2} \big[ m_3, \, m_{\tilde{q}}^{\, i \, 1} \big] - \frac{1}{3} \, g_3^2 
                                                                                                                                                                                             g_2 \; s_\gamma \; \overline{y_d}^{\text{pr}} \; y_d^{\text{ilr}} \; y_u^{\text{pi2}} \; \mathsf{LF}_{3,1,-1} \big[ \widetilde{\mu} \,, \; \mathsf{m}_{\widetilde{d}}^{\text{r}} \big] \; + \; \tfrac{1}{8} \; g_2 \; s_\gamma \; \overline{y_d}^{\text{pr}} \; y_d^{\text{ilr}} \; y_u^{\text{pi2}} \; \mathsf{LF}_{4,1,-2} \big[ \widetilde{\mu} \,, \; \mathsf{m}_{\widetilde{d}}^{\text{-r}} \big] \; - \; \mathsf{m}_{\widetilde{d}}^{\text{pr}} \big[ \mathsf{m}_{\widetilde{d}}^{\text{pr}} \big] \; + \; \mathsf{m}_{\widetilde{d}}^{\text{pr}} \big[ \mathsf{m}_{\widetilde{d}}^
                                                                                                                                                                                             \mathsf{g}_2 \, \mathsf{s}_\gamma \, \overline{\mathsf{y}_\mathsf{u}}^\mathsf{pr} \, \mathsf{y}_\mathsf{u}^{\,\mathsf{pi}2} \, \mathsf{y}_\mathsf{u}^{\,\mathsf{ilr}} \, \mathsf{LF}_{3,1,-1} \big[ \widetilde{\mu} \,,\, \mathsf{m}_{\widetilde{\mathsf{u}}}^{\,\mathsf{r}} \big] \, + \, \frac{1}{8} \, \mathsf{g}_2 \, \mathsf{s}_\gamma \, \overline{\mathsf{y}_\mathsf{u}}^\mathsf{pr} \, \mathsf{y}_\mathsf{u}^{\,\mathsf{pi}2} \, \mathsf{y}_\mathsf{u}^{\,\mathsf{ilr}} \, \mathsf{LF}_{4,1,-2} \big[ \widetilde{\mu} \,,\, \mathsf{m}_{\widetilde{\mathsf{u}}}^{\,\mathsf{r}} \big] \, + \, \frac{1}{8} \, \mathsf{g}_3 \, \mathsf{s}_\gamma \, \overline{\mathsf{y}_\mathsf{u}}^\mathsf{pr} \, \mathsf{y}_\mathsf{u}^{\,\mathsf{pi}2} \, \mathsf{y}_\mathsf{u}^{\,\mathsf{ilr}} \, \mathsf{LF}_{4,1,-2} \big[ \widetilde{\mu} \,,\, \mathsf{m}_{\widetilde{\mathsf{u}}}^{\,\mathsf{r}} \big] \, + \, \frac{1}{8} \, \mathsf{g}_3 \, \mathsf{s}_\gamma \, \overline{\mathsf{y}_\mathsf{u}}^\mathsf{pr} \, \mathsf{y}_\mathsf{u}^{\,\mathsf{pi}2} \, \mathsf{u}^{\,\mathsf{pi}2} \, \mathsf{y}_\mathsf{u}^{\,\mathsf{pi}2} \, \mathsf{u}^{\,\mathsf{pi}2}
                                                                                                                                                                                                                     \mathbf{g_{2}} \; \mathbf{m_{1}} \; \mathbf{g_{1}}^{2} \; \left( - \, \mathbf{s_{\gamma}} \; a_{u}^{\; \text{ili2}} + \widetilde{\mu} \; \mathbf{c_{\gamma}} \; \mathbf{y_{u}}^{\; \text{ili2}} \right) \; \mathsf{LF_{2,1,1,0}} \big[ \, \mathbf{m_{1}} \, , \; \mathbf{m_{\tilde{u}}}^{\; \text{il}} \, , \; \mathbf{m_{\tilde{u}}}^{\; \text{il}} \, \big] \; + \\
                                                                                                                                                                                                                g_2 \; m_1 \; g_1^{\; 2} \; \left( - \, s_{\scriptscriptstyle \Upsilon} \; a_u^{\; \text{ili2}} \, + \, \widetilde{\mu} \; c_{\scriptscriptstyle \Upsilon} \; y_u^{\; \text{ili2}} \right) \; \mathsf{LF}_{2,2,1,-1} \big[ \, m_1 \, , \; m_{\tilde{q}}^{\; \text{il}} \, , \; m_{\tilde{u}}^{\; \text{il}} \, \big] \; + \\
                                                                                                                                                  \frac{1}{36} g_2 m_1 g_1^2 (s_\gamma a_u^{i1i2} - \tilde{\mu} c_\gamma y_u^{i1i2}) LF_{3,1,1,-1}[m_1, m_{\tilde{q}}^{i1}, m_{\tilde{u}}^{i2}] -
                                                                                                                                                      \frac{1}{24} \; g_2 \; s_\gamma \; g_1{}^2 \; y_u{}^{\text{ili2}} \; \mathsf{LF}_{1,1,1,0} \left[ \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \,, \; \widetilde{\mu} \right] \; + \; \frac{1}{12} \; g_2 \; s_\gamma \; g_1{}^2 \; y_u{}^{\text{ili2}} \; \mathsf{LF}_{2,1,1,-1} \left[ \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \,, \; \widetilde{\mu} \right] \; + \; \frac{1}{12} \; g_2 \; s_\gamma \; g_1{}^2 \; y_u{}^{\text{ili2}} \; \mathsf{LF}_{2,1,1,-1} \left[ \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \,, \; \widetilde{\mu} \right] \; + \; \frac{1}{12} \; g_2 \; s_\gamma \; g_1{}^2 \; y_u{}^{\text{ili2}} \; \mathsf{LF}_{2,1,1,-1} \left[ \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \,, \; \widetilde{\mu} \right] \; + \; \frac{1}{12} \; g_2 \; s_\gamma \; g_1{}^2 \; y_u{}^{\text{ili2}} \; \mathsf{LF}_{2,1,1,-1} \left[ \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \,, \; \widetilde{\mu} \right] \; + \; \frac{1}{12} \; g_2 \; s_\gamma \; g_1{}^2 \; y_u{}^{\text{ili2}} \; \mathsf{LF}_{2,1,1,-1} \left[ \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \,, \; \widetilde{\mu} \right] \; + \; \frac{1}{12} \; g_2 \; s_\gamma \; g_1{}^2 \; y_u{}^{\text{ili2}} \; \mathsf{LF}_{2,1,1,-1} \left[ \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \,, \; \widetilde{\mu} \right] \; + \; \frac{1}{12} \; g_2 \; s_\gamma \; g_1{}^2 \; y_u{}^{\text{ili2}} \; \mathsf{LF}_{2,1,1,-1} \left[ \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \,, \; \widetilde{\mu} \right] \; + \; \frac{1}{12} \; g_2 \; s_\gamma \; g_1{}^2 \; y_u{}^{\text{ili2}} \; \mathsf{LF}_{2,1,1,-1} \left[ \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{il}} \,, \; \widetilde{\mu} \right] \; + \; \frac{1}{12} \; g_2 \; s_\gamma \; g_1{}^2 \; y_u{}^{\text{ili2}} \; \mathsf{LF}_{2,1,1,-1} \left[ \mathsf{m}_1 \,, \; \mathsf{m}_{\tilde{\mathsf{q}}}{}^{\text{ili2}} \,, \; \widetilde{\mu}_1 \,, \; \widetilde{\mu}_2 \,, \; \widetilde{\mu}_2 \,, \; \widetilde{\mu}_1 \,, \; \widetilde{\mu}_2 \,, \; \widetilde{\mu}_2 \,, \; \widetilde{\mu}_1 \,, \; \widetilde{\mu}_2 \,, \; \widetilde{\mu}_2 \,, \; \widetilde{\mu}_1 \,, \; \widetilde{\mu}_2 
                                                                                                                                                                                                                g_2 \, m_1 \, \widetilde{\mu} \, c_{\gamma} \, g_1^2 \, y_u^{\, \text{ili2}} \, LF_{2,1,1,0} \big[ m_1, \, m_{\tilde{q}}^{\, \, \text{il}}, \, \widetilde{\mu} \big] - \frac{1}{24} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \text{ili2}} \, LF_{3,1,1,-2} \big[ m_1, \, m_{\tilde{q}}^{\, \, \text{il}}, \, \widetilde{\mu} \big] - \frac{1}{24} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \text{ili2}} \, LF_{3,1,1,-2} \big[ m_1, \, m_{\tilde{q}}^{\, \, \text{il}}, \, \widetilde{\mu} \big] - \frac{1}{24} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \text{ili2}} \, LF_{3,1,1,-2} \big[ m_1, \, m_{\tilde{q}}^{\, \, \text{ili2}}, \, \widetilde{\mu} \big] - \frac{1}{24} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \, \text{ili2}} \, LF_{3,1,1,-2} \big[ m_1, \, m_{\tilde{q}}^{\, \, \, \text{ili2}}, \, \widetilde{\mu} \big] - \frac{1}{24} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \, \, \text{ili2}} \, LF_{3,1,1,-2} \big[ m_1, \, m_{\tilde{q}}^{\, \, \, \text{ili2}}, \, \widetilde{\mu} \big] - \frac{1}{24} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \, \, \, \text{ili2}} \, LF_{3,1,1,-2} \big[ m_1, \, m_{\tilde{q}}^{\, \, \, \, \text{ili2}}, \, \widetilde{\mu} \big] - \frac{1}{24} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \, \, \, \, \text{ili2}} \, LF_{3,1,1,-2} \big[ m_1, \, m_{\tilde{q}}^{\, \, \, \, \text{ili2}}, \, \widetilde{\mu} \big] - \frac{1}{24} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \, \, \, \, \text{ili2}} \, LF_{3,1,1,-2} \big[ m_1, \, m_{\tilde{q}}^{\, \, \, \, \, \text{ili2}}, \, \widetilde{\mu} \big] - \frac{1}{24} \, g_1^2 \, g_1^2
                                                                                                                                                      \frac{1}{24} \; g_2 \; m_1 \; \tilde{\mu} \; c_{\gamma} \; g_1{}^2 \; y_u^{\; \text{ili2}} \; \mathsf{LF}_{3,1,1,-1} \big[ \; m_1 \; , \; m_{\tilde{q}}^{\; \text{il}} \; , \; \tilde{\mu} \big] \; + \; \frac{1}{72} \; g_2 \; m_1 \; g_1{}^2 \; \left( s_{\gamma} \; a_u^{\; \text{ili2}} \; - \; \tilde{\mu} \; c_{\gamma} \; y_u^{\; \text{ili2}} \right)
                                                                                                                                                                              \mathsf{LF_{2,2,1,-1}}\big[\,\mathsf{m_{1}}\,,\,\,\mathsf{m_{\tilde{u}}}^{\,\,\text{i}\,2}\,,\,\,\mathsf{m_{\tilde{q}}}^{\,\,\text{i}\,1}\,\big]\,-\,\frac{1}{48}\,\,\mathsf{g_{2}}\,\,\mathsf{s_{Y}}\,\,\mathsf{g_{1}}^{2}\,\,\mathsf{y_{u}}^{\,\,\text{i}\,1\,i}^{\,\,2}\,\,\mathsf{LF_{2,2,1,-2}}\big[\,\mathsf{m_{1}}\,,\,\,\widetilde{\mu}\,,\,\,\mathsf{m_{\tilde{q}}}^{\,\,\text{i}\,1}\,\big]\,-\,\frac{1}{48}\,\,\mathsf{g_{2}}\,\,\mathsf{s_{Y}}\,\,\mathsf{g_{1}}^{2}\,\,\mathsf{y_{u}}^{\,\,\text{i}\,1\,i}^{\,\,2}\,\,\mathsf{LF_{2,2,1,-2}}\big[\,\mathsf{m_{1}}\,,\,\,\widetilde{\mu}\,,\,\,\mathsf{m_{\tilde{q}}}^{\,\,\text{i}\,1}\,\big]\,-\,\mathsf{m_{1}}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{\,\,\text{i}\,1}\,\,\mathsf{m_{2}}^{
                                                                                                                                                                                                                     g_2 \, m_1 \, \widetilde{\mu} \, c_{\gamma} \, g_1^2 \, y_u^{\, \text{ili2}} \, \mathsf{LF}_{2,2,1,-1} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{q}}^{\, \, \text{il}} \big] \, + \, \frac{1}{12} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \text{ili2}} \, \mathsf{LF}_{2,2,1,-2} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{u}}^{\, \, \text{il}} \big] \, + \, \frac{1}{12} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \text{ili2}} \, \mathsf{LF}_{2,2,1,-2} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{u}}^{\, \, \text{il}} \big] \, + \, \frac{1}{12} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \text{ili2}} \, \mathsf{LF}_{2,2,1,-2} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{u}}^{\, \, \text{ili2}} \big] \, + \, \frac{1}{12} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \text{ili2}} \, \mathsf{LF}_{2,2,1,-2} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{u}}^{\, \, \, \text{ili2}} \big] \, + \, \frac{1}{12} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \, \text{ili2}} \, \mathsf{LF}_{2,2,1,-2} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{u}}^{\, \, \, \, \text{ili2}} \big] \, + \, \frac{1}{12} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \, \, \text{ili2}} \, \mathsf{LF}_{2,2,1,-2} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{u}}^{\, \, \, \, \text{ili2}} \big] \, + \, \frac{1}{12} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \, \, \text{ili2}} \, \mathsf{LF}_{2,2,1,-2} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{u}}^{\, \, \, \, \text{ili2}} \big] \, + \, \frac{1}{12} \, g_2 \, s_{\gamma} \, g_1^2 \, y_u^{\, \, \, \, \, \text{ili2}} \, \mathsf{LF}_{2,2,1,-2} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{u}}^{\, \, \, \, \text{ili2}} \big] \, + \, \frac{1}{12} \, g_1^2 \, s_1^2 \, g_1^2 \, y_u^{\, \, \, \, \, \text{ili2}} \, \mathsf{LF}_{2,2,1,-2} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{u}}^{\, \, \, \, \text{ili2}} \big] \, + \, \frac{1}{12} \, g_1^2 \, s_1^2 \, g_1^2 \, y_u^{\, \, \, \, \, \text{ili2}} \, \mathsf{LF}_{2,2,1,-2} \big[ m_1 \, , \, \widetilde{\mu} \, , \, m_{\tilde{u}}^{\, \, \, \, \, \text{ili2}} \big] \, + \, \frac{1}{12} \, g_1^2 \, g
                                                                                                                                                  \frac{1}{12} \; g_2 \; m_1 \; \widetilde{\mu} \; c_{\gamma} \; g_1^{\; 2} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{2,2,1,-1} \big[ \; m_1 \; , \; \widetilde{\mu} \; , \; m_{\tilde{u}}^{\; i\, 2} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1\, i\, 2} \; \mathsf{LF}_{1,1,1,1,0} \big[ \; m_2 \; , \; m_{\tilde{q}}^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1} \; , \; \widetilde{\mu} \; \big] \; - \; \frac{1}{8} \; s_{\gamma} \; g_2^{\; 3} \; y_u^{\; i\, 1} \; , \; \widetilde{
                                                                                                                                                  \frac{1}{4} \, \, \mathsf{s}_{\gamma} \, \, \mathsf{g_{2}}^{3} \, \, \mathsf{y_{u}}^{\, \mathtt{ili2}} \, \, \mathsf{LF_{2,1,1,-1}} \big[ \, \mathsf{m_{2}} \, , \, \, \mathsf{m_{\tilde{q}}}^{\, \mathtt{il}} \, , \, \, \widetilde{\mu} \, \big] \, + \, \frac{1}{8} \, \, \mathsf{m_{2}} \, \, \widetilde{\mu} \, \, \mathsf{c}_{\gamma} \, \, \mathsf{g_{2}}^{3} \, \, \mathsf{y_{u}}^{\, \mathtt{ili2}} \, \, \mathsf{LF_{2,1,1,0}} \big[ \, \mathsf{m_{2}} \, , \, \, \mathsf{m_{\tilde{q}}}^{\, \mathtt{il}} \, , \, \, \widetilde{\mu} \, \big] \, + \, \frac{1}{8} \, \, \mathsf{m_{2}} \, \, \widetilde{\mu} \, \, \mathsf{c}_{\gamma} \, \, \, \mathsf{g_{2}}^{3} \, \, \mathsf{y_{u}}^{\, \mathtt{ili2}} \, \, \mathsf{LF_{2,1,1,0}} \big[ \, \mathsf{m_{2}} \, , \, \, \mathsf{m_{\tilde{q}}}^{\, \mathtt{il}} \, , \, \, \widetilde{\mu} \, \big] \, + \, \frac{1}{8} \, \, \mathsf{m_{2}} \, \, \widetilde{\mu} \, \, \mathsf{c}_{\gamma} \, \, \, \, \mathsf{g_{2}}^{3} \, \, \mathsf{y_{u}}^{\, \mathtt{ili2}} \, \, \, \mathsf{LF_{2,1,1,0}} \big[ \, \mathsf{m_{2}} \, , \, \, \, \mathsf{m_{\tilde{q}}}^{\, \mathtt{il}} \, , \, \, \widetilde{\mu} \, \big] \, + \, \frac{1}{8} \, \, \mathsf{m_{2}} \, \, \, \widetilde{\mu} \, \, \, \mathsf{c}_{\gamma} \, \, \, \, \mathsf{g_{2}}^{3} \, \, \, \mathsf{y_{u}}^{\, \mathtt{ili2}} \, \, \, \mathsf{LF_{2,1,1,0}} \big[ \, \mathsf{m_{2}} \, , \, \, \, \mathsf{m_{\tilde{q}}}^{\, \mathtt{il}} \, , \, \, \, \widetilde{\mu} \, \big] \, + \, \frac{1}{8} \, \, \mathsf{m_{2}} \, \, \, \, \, \, \mathsf{m_{2}} \, \, \, \, \, \mathsf{m_{2}}^{\, \mathtt{ili2}} \, \, \, \, \mathsf{m_{2}}^{\, \mathtt{ili2}} \, \, \, \, \mathsf{m_{2}}^{\, \mathtt{ili2}} \, \, \mathsf{m_{2}}^{\, \mathtt{ili2}} \, \, \, \, \mathsf{m_{2}}^{\, \mathtt{ili2}} \, \, \, \, \mathsf{m_{2}}^{\, \mathtt{ili2}} \,
                                                                                                                                                                                             s_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-2} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{\tilde{q}}^{i1}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{2}^{3} y_{u}^{i1i2} LF_{3,1,1,-1} [m_{2}, m_{2}, \tilde{\mu}] + \frac{3}{8} m_{2} \tilde{\mu} c_{\gamma} g_{\gamma} g_{
                                                                                                                                                  \frac{3}{16} \, \mathsf{s_{\gamma}} \, \mathsf{g_2}^3 \, \mathsf{y_u}^{\mathsf{ili2}} \, \mathsf{LF_{2,2,1,-2}} \big[ \mathsf{m_2} \,,\, \tilde{\mu} \,,\, \mathsf{m_{\tilde{q}}}^{\mathsf{il}} \big] \, + \, \frac{3}{16} \, \, \mathsf{m_2} \, \tilde{\mu} \, \, \mathsf{c_{\gamma}} \, \, \mathsf{g_2}^3 \, \mathsf{y_u}^{\mathsf{ili2}} \, \mathsf{LF_{2,2,1,-1}} \big[ \mathsf{m_2} \,,\, \tilde{\mu} \,,\, \mathsf{m_{\tilde{q}}}^{\mathsf{il}} \big] \, + \, \frac{3}{16} \, \, \mathsf{m_2} \, \, \tilde{\mu} \, \, \mathsf{c_{\gamma}} \, \, \mathsf{g_2}^3 \, \, \mathsf{y_u}^{\mathsf{ili2}} \, \, \mathsf{LF_{2,2,1,-1}} \big[ \mathsf{m_2} \,,\, \tilde{\mu} \,,\, \mathsf{m_{\tilde{q}}}^{\mathsf{il}} \big] \, + \, \frac{3}{16} \, \, \mathsf{m_2} \, \, \tilde{\mu} \, \, \mathsf{c_{\gamma}} \, \, \mathsf{g_2}^3 \, \, \mathsf{y_u}^{\mathsf{ili2}} \, \, \mathsf{LF_{2,2,1,-1}} \big[ \mathsf{m_2} \,,\, \tilde{\mu} \,,\, \mathsf{m_{\tilde{q}}}^{\mathsf{il}} \big] \, + \, \frac{3}{16} \, \, \mathsf{m_2} \, \, \tilde{\mu} \, \, \mathsf{c_{\gamma}} \, \, \mathsf{g_2}^3 \, \, \mathsf{g_2}
                                                                                                                                                  \frac{1}{3}~g_2~m_3~g_3^2~\left(-\,s_{_{\scriptscriptstyle Y}}~a_u^{\,\textrm{ili2}}+\widetilde{\mu}~c_{_{\scriptscriptstyle Y}}~y_u^{\,\textrm{ili2}}\right)~\mathsf{LF}_{2,1,1,0}\!\left[\,m_3\,,~m_{_{\scriptscriptstyle \widetilde{Q}}}^{\,\textrm{il}},~m_{_{\scriptscriptstyle \widetilde{U}}}^{\,\textrm{il}}^2\,\right]\,+
                                                                                                                                                                                             {\rm g_2} \; {\rm m_3} \; {\rm g_3}^2 \; \left( - \, {\rm s_{\scriptscriptstyle Y}} \; a_u^{\; {\rm ili2}} + \widetilde{\mu} \; {\rm c_{\scriptscriptstyle Y}} \; {\rm y_u}^{\rm ili2} \right) \; {\rm LF_{2,2,1,-1}} \big[ \, {\rm m_3} \, , \; {\rm m_{\tilde{q}}}^{\rm il} \, , \; {\rm m_{\tilde{u}}} \, , \; {\rm m_{\tilde{u}}}^{\rm il} \, , \; {
                                                                                                                                                                                                  {\rm g_2} \; {\rm m_3} \; {\rm g_3}^2 \; \left( {\rm s_{_Y}} \; {\rm a_u}^{\rm ili2} - \widetilde{\mu} \; {\rm c_{_Y}} \; {\rm y_u}^{\rm ili2} \right) \; {\rm LF_{3,1,1,_{_{_{_{1}}}}-1}} \left[ \, {\rm m_3} \, , \; {\rm m_{\tilde{u}}}^{\rm il} \, , \; {\rm m_{\tilde{u}}}^{\rm il} \, \right] \; + \\
                                                                                                                                                                                             {\rm g_2} \; {\rm m_3} \; {\rm g_3}^2 \; \left( {\rm s_{_Y}} \; {\rm a_u}^{\rm ili2} - \tilde{\mu} \; {\rm c_{_Y}} \; {\rm y_u}^{\rm ili2} \right) \; {\rm LF_{2,2,1,-1}} \big[ \, {\rm m_3} \, , \; {\rm m_{\bar{u}}}^{\rm i2} \, , \; {\rm m_{\bar{q}}}^{\rm il} \big] \; + \\
                                                                                                                                                                                                                g_2 \; \widetilde{\mu} \; y_d^{\text{ilr}} \; y_u^{\text{pi2}} \; \left( c_{\Upsilon} \; \overline{a_d}^{\text{pr}} - s_{\Upsilon} \; \widetilde{\mu} \; \overline{y_d}^{\text{pr}} \right) \; \mathsf{LF}_{2,2,1,-1} \! \left[ \, m_{\widetilde{d}}^{\text{-r}} \, , \; \widetilde{\mu} \, , \; m_{\widetilde{q}}^{\text{-p}} \, \right] \; + \; \mathsf{I}_{\mathsf{q}} \; \mathsf{I}
                                                                                                                                                  \frac{1}{16}~g_2~\widetilde{\mu}~y_d^{\textrm{ilr}}~y_u^{\textrm{pi2}}~\left(-\,c_{\gamma}~\overline{a_d}^{\textrm{pr}} + s_{\gamma}~\widetilde{\mu}~\overline{y_d}^{\textrm{pr}}\right)~\mathsf{LF}_{2,2,1,-1}\!\left[\mathfrak{m}_{\bar{q}}^{\phantom{\bar{q}}\mathsf{p}},~\widetilde{\mu},~\mathfrak{m}_{\bar{d}}^{\phantom{\bar{q}}\mathsf{r}}\right] +
                                                                                                                                                  \frac{1}{24} g_2 s_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,-1} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] + \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{\text{ili2}} LF_{2,1,1,0} \big[ \tilde{\mu}, m_1, m_{\tilde{q}}^{\text{il}} \big] - \frac{1}{24} g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^2 y_u^2 g_1^2 y_u^2 y_u^2 g_1^2 y_u^2 y_u^2 y_u^2 g_1^2 y_
                                                                                                                                                                                                  g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{2,1,1,-1} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] + \frac{1}{6} g_2 s_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_1, m_2] + \frac{1}{6} g_2 g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_2] + \frac{1}{6} g_2 g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_2] + \frac{1}{6} g_2 g_1^2 y_u^2 g_1^2 y_u^{i1i2} LF_{3,1,1,-2} [\tilde{\mu}, m_1, m_2] + \frac{1}{6} g_2 g_1^2 y_u^2 g_1^2 y_u^2
                                                                                                                                                                                                      g_2 m_1 \tilde{\mu} c_{\gamma} g_1^2 y_u^{i1i2} LF_{3,1,1,-1} [\tilde{\mu}, m_1, m_{\tilde{u}}^{i2}] +
                                                                                                                                                                                             s_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,-1}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1\,i\,2}\,LF_{2,1,1,0}\big[\tilde{\mu}\,,\,m_{2}\,,\,m_{\tilde{q}}{}^{i\,1}\big]\,+\,\frac{1}{8}\,m_{2}\,\tilde{\mu}\,c_{\gamma}\,g_{2}{}^{3}\,y_{u}{}^{i\,1}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3}\,g_{2}{}^{3
                                                                                                                                                                                                  \mathbf{g_2}\; \widetilde{\boldsymbol{\mu}}\; \mathbf{y_d}^{\text{ilr}}\; \mathbf{y_u}^{\text{pi2}}\; \left(-\,\mathbf{c_{\scriptscriptstyle Y}}\; \overline{\mathbf{a_d}}^{\text{pr}} + \mathbf{s_{\scriptscriptstyle Y}}\; \widetilde{\boldsymbol{\mu}}\; \overline{\mathbf{y_d}}^{\text{pr}}\right) \; \mathsf{LF_{2,1,1,0}} \left[\, \widetilde{\boldsymbol{\mu}} \; , \; \mathbf{m_{\tilde{d}}}^{\text{r}} \; , \; \mathbf{m_{\tilde{d}}}^{\text{p}} \, \right] \; + \; \mathbf{a_{\scriptscriptstyle Y}} \; \mathbf{a_{\scriptscriptstyle Z}}^{\text{pr}} \; , \; \mathbf{a_{\scriptscriptstyle Z}}^{\text{pr}} \; , \; \mathbf{a_{\scriptscriptstyle Z}}^{\text{pr}} \; \right] \; + \; \mathbf{a_{\scriptscriptstyle Z}} \; \mathbf{a_{\scriptscriptstyle Z}}^{\text{pr}} \; , \; \mathbf{a_{\scriptscriptstyle Z}}^{\text{pr}} 
                                                                                                                                                                                        g_2 \; \widetilde{\mu} \; y_d^{\text{ilr}} \; y_u^{\text{pi2}} \; \left( - \, c_{\curlyvee} \; \overline{a_d}^{\text{pr}} + \, s_{\curlyvee} \; \widetilde{\mu} \; \overline{y_d}^{\text{pr}} \right) \; \text{LF}_{3,1,1,-1} \left[ \, \widetilde{\mu} \, , \; m_{\bar{d}}^{\text{-}r} \, , \; m_{\bar{q}}^{\text{-}p} \, \right] \right)
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