

$$\begin{aligned}
C_{\text{quqd}}^{(8) \text{ i1-i2-i3-i4-}} \rightarrow & \hbar \left(\frac{1}{18} s_\gamma c_\gamma \frac{1}{m_\oplus^2} \left(9 s_\gamma^2 \overline{y_d^{\text{pr}}} y_d^{\text{i1i4}} y_d^{\text{i3r}} y_u^{\text{pi2}} - \right. \right. \\
& 36 g_3^2 y_d^{\text{i3i4}} y_u^{\text{i1i2}} - y_u^{\text{i3i2}} \left(y_d^{\text{i1i4}} \left(5 g_1^2 + 27 g_2^2 + 24 g_3^2 \right) - 9 c_\gamma^2 y_d^{\text{pi4}} \overline{y_u^{\text{pr}}} y_u^{\text{i1r}} \right) \left. \right) + \\
& \frac{1}{9} s_\gamma c_\gamma \left(-36 g_3^2 y_d^{\text{i3i4}} y_u^{\text{i1i2}} - y_d^{\text{i1i4}} y_u^{\text{i3i2}} \left(5 g_1^2 + 27 g_2^2 + 24 g_3^2 \right) \right) \text{LF}_{1,2}[m_\oplus] + \\
& \frac{2}{9} m_1 \tilde{\mu} g_1^2 y_d^{\text{i1i4}} y_u^{\text{i3i2}} \text{LF}_{1,1,1,1,0}[m_1, m_{\tilde{d}}^{\text{i4}}, m_{\tilde{q}}^{\text{i3}}, \tilde{\mu}] + \\
& \frac{8}{9} m_1 \tilde{\mu} g_1^2 y_d^{\text{i1i4}} y_u^{\text{i3i2}} \text{LF}_{1,1,1,1,0}[m_1, m_{\tilde{d}}^{\text{i4}}, m_{\tilde{u}}^{\text{i2}}, \tilde{\mu}] - \\
& \frac{1}{9} m_1 \tilde{\mu} g_1^2 y_d^{\text{i1i4}} y_u^{\text{i3i2}} \text{LF}_{1,1,1,1,0}[m_1, m_{\tilde{q}}^{\text{i1}}, m_{\tilde{q}}^{\text{i3}}, \tilde{\mu}] - \\
& \frac{4}{9} m_1 \tilde{\mu} g_1^2 y_d^{\text{i1i4}} y_u^{\text{i3i2}} \text{LF}_{1,1,1,1,0}[m_1, m_{\tilde{q}}^{\text{i1}}, m_{\tilde{u}}^{\text{i2}}, \tilde{\mu}] + \\
& 3 m_2 \tilde{\mu} g_2^2 y_d^{\text{i1i4}} y_u^{\text{i3i2}} \text{LF}_{1,1,1,1,0}[m_2, m_{\tilde{q}}^{\text{i1}}, m_{\tilde{q}}^{\text{i3}}, \tilde{\mu}] + \\
& \frac{2}{3} m_3 \tilde{\mu} g_3^2 y_d^{\text{i1i4}} y_u^{\text{i3i2}} \text{LF}_{1,1,1,1,0}[m_3, m_{\tilde{d}}^{\text{i4}}, m_{\tilde{q}}^{\text{i3}}, \tilde{\mu}] + \\
& \frac{2}{3} m_3 \tilde{\mu} g_3^2 \left(3 y_d^{\text{i3i4}} y_u^{\text{i1i2}} + y_d^{\text{i1i4}} y_u^{\text{i3i2}} \right) \text{LF}_{1,1,1,1,0}[m_3, m_{\tilde{d}}^{\text{i4}}, m_{\tilde{u}}^{\text{i2}}, \tilde{\mu}] + \\
& \frac{2}{3} m_3 \tilde{\mu} g_3^2 \left(3 y_d^{\text{i3i4}} y_u^{\text{i1i2}} + y_d^{\text{i1i4}} y_u^{\text{i3i2}} \right) \text{LF}_{1,1,1,1,0}[m_3, m_{\tilde{q}}^{\text{i1}}, m_{\tilde{q}}^{\text{i3}}, \tilde{\mu}] + \\
& \left. \frac{2}{3} m_3 \tilde{\mu} g_3^2 y_d^{\text{i1i4}} y_u^{\text{i3i2}} \text{LF}_{1,1,1,1,0}[m_3, m_{\tilde{q}}^{\text{i1}}, m_{\tilde{u}}^{\text{i2}}, \tilde{\mu}] \right)
\end{aligned}$$