

$$\begin{aligned}
C_G \rightarrow & \frac{1}{16\pi^2} \left( -\frac{1}{6} g_3^3 \mathcal{L}F_{3,0}[m_3] + \frac{2}{5} g_3^3 \mathcal{L}F_{5,-2}[m_3] - \frac{1}{18} \sum_p g_3^3 \mathcal{L}F_{3,0}[m_d^p] + \right. \\
& \frac{1}{8} \sum_p g_3^3 \mathcal{L}F_{4,-1}[m_d^p] - \frac{1}{15} \sum_p g_3^3 \mathcal{L}F_{5,-2}[m_d^p] - \frac{1}{9} \sum_p g_3^3 \mathcal{L}F_{3,0}[m_q^p] + \frac{1}{4} \sum_p g_3^3 \mathcal{L}F_{4,-1}[m_q^p] - \\
& \left. \frac{2}{15} \sum_p g_3^3 \mathcal{L}F_{5,-2}[m_q^p] - \frac{1}{18} \sum_p g_3^3 \mathcal{L}F_{3,0}[m_u^p] + \frac{1}{8} \sum_p g_3^3 \mathcal{L}F_{4,-1}[m_u^p] - \frac{1}{15} \sum_p g_3^3 \mathcal{L}F_{5,-2}[m_u^p] \right)
\end{aligned}$$