

$$g_2 \rightarrow$$

$$g_2 + \hbar \left( \frac{7}{12} g_2^3 - \frac{2}{3} g_2^3 \text{LF}_{3,-1}[m_2] - \frac{1}{4} \sum_p g_2^3 \text{LF}_{2,0}[m_{\tilde{l}}^p] + \frac{1}{6} \sum_p g_2^3 \text{LF}_{3,-1}[m_{\tilde{l}}^p] - \frac{3}{4} \sum_p g_2^3 \text{LF}_{2,0}[m_{\tilde{q}}^p] + \right. \\ \left. \frac{1}{2} \sum_p g_2^3 \text{LF}_{3,-1}[m_{\tilde{q}}^p] - \frac{1}{4} g_2^3 \text{LF}_{2,0}[m_{\oplus}] + \frac{1}{6} g_2^3 \text{LF}_{3,-1}[m_{\oplus}] - \frac{1}{3} g_2^3 \text{LF}_{3,-1}[\tilde{\mu}] \right)$$