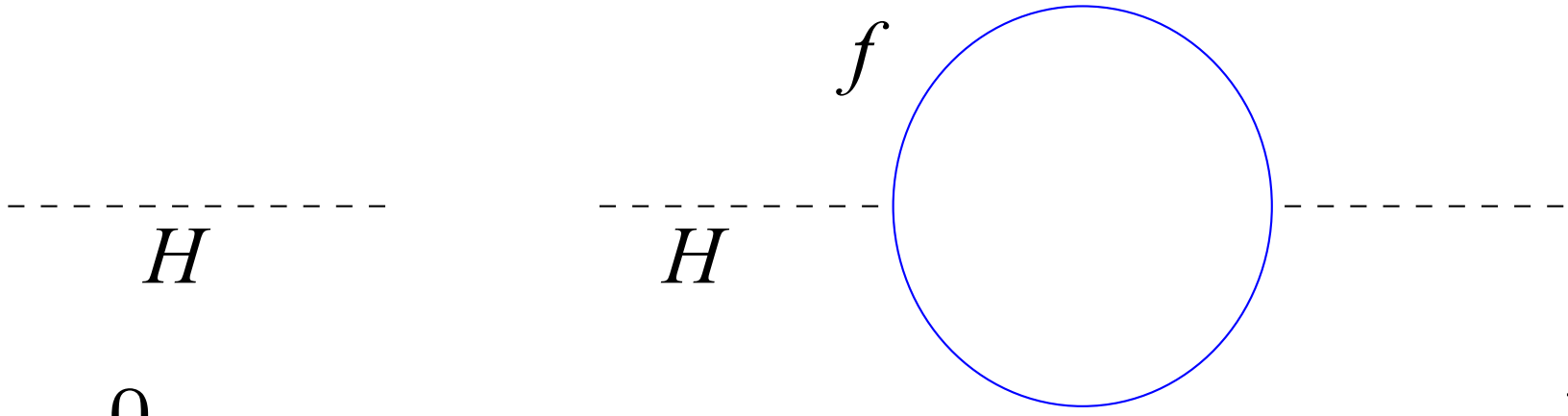
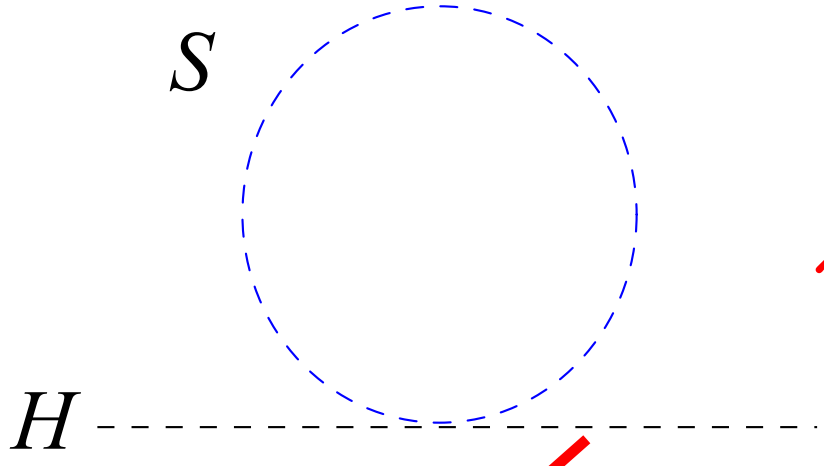


m_H^0 m_H^1

$$\Delta m_H^2 = (m_H^1)^2 - (m_H^0)^2 = -\frac{|\lambda_f|^2}{8\pi^2}\Lambda^2$$



$$\lambda_f = \lambda_S$$

$$\Delta m_H^2 = \frac{|\lambda_S|^2}{8\pi^2}\left[\Lambda^2 - 2m_S^2 \ln(\Lambda/m_S)\right]$$