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