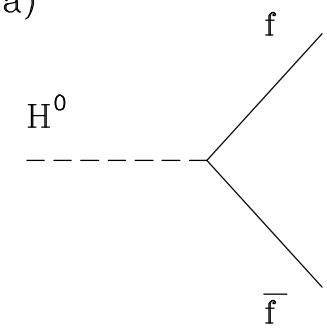
(a)



$$\frac{-ig\,m_f}{2m_W}$$