

$$\sigma^{\text{MSSM}}(\text{gg} \rightarrow \phi) = \left(\frac{g_t^{\text{MSSM}}}{g_t^{\text{SM}}} \right)^2 \sigma_{\text{tt}}(\text{gg} \rightarrow \phi) + \left(\frac{g_b^{\text{MSSM}}}{g_b^{\text{SM}}} \right)^2 \sigma_{\text{bb}}(\text{gg} \rightarrow \phi)$$