

$\sigma_{\text{ggF}}(\text{pp} \rightarrow \text{HH}) [\text{fb}]$

***Thesis***

$\sqrt{s} = 13 \text{ TeV}, 126 \text{ fb}^{-1}$

ggF selection

- Observed Limit (95% CL)
- - - Expected Limit (95% CL)
- Theory Prediction
- Observed Limit ( $m_{\text{HH}} > 381 \text{ GeV}$ )
- - - Expected Limit ( $m_{\text{HH}} > 381 \text{ GeV}$ )
- Expected Limit  $\pm 1\sigma$
- Expected Limit  $\pm 2\sigma$

