

ATLAS

$\sqrt{s} = 13 \text{ TeV}, 126\text{--}139 \text{ fb}^{-1}$

$\sigma_{\text{ggF} + \text{VBF}}^{\text{SM}}(HH) = 32.7 \text{ fb}$

- Observed limit
- Expected limit ($\mu_{HH} = 0$ hypothesis)
- Expected limit $\pm 1\sigma$
- Expected limit $\pm 2\sigma$

Obs.

Exp.

$b\bar{b}\tau^+\tau^-$

4.7

3.9

0 5 10 15 20 25 30

95% CL upper limit on HH signal strength μ_{HH}