

ATLAS Internal $\sqrt{s} = 13 \text{ TeV}, 126 \text{ fb}^{-1}$ $\sigma_{\text{ggF, HH}}^{\text{SM}} = 31.05 \text{ fb, bkg syts}$

— — Expected

 $\pm 1\sigma$ $\pm 2\sigma$

Inclusive

9.28

 $\Delta\eta_{\text{HH}}$ categories

7.79

 $\Delta\eta_{\text{HH}}, X_{\text{HH}}$ categories

6.64

95% CL upper limit on $\sigma_{\text{ggF, HH}} / \sigma_{\text{ggF, HH}}^{\text{SM}}$