

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

— — Expected

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

Inclusive

9.28

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

7.59

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

6.41

2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5
95% CL upper limit on $\sigma_{\text{ggF, HH}} / \sigma_{\text{ggF, HH}}^{\text{SM}}$