

$\Delta\sigma/\sigma_{\text{SM}}$

-0.6 -0.4 -0.2 0 0.2 0.4 0.6

ttb: NLO gen.

shape tt+bb

ttb: PS & hadron.

ttb: norm.

light mistag NP 1

b-tag: effic. NP 27

tt3b XS

JES flav. Response

ttc: NLO gen.

ttc: ME reweighting

ATLAS
Preliminary

Projection from Run 2 data

ttH, $H \rightarrow bb$ (single lepton)
 $\sqrt{s} = 14 \text{ TeV}, 3000 \text{ fb}^{-1}$

- Pull
- Normalisation
- 1 standard deviation
- Prefit Impact on σ
- Postfit Impact on σ

-3 -2 -1 0 1 2 3

 $(\hat{\theta} - \theta_0)/\Delta\theta$