

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

$\tau_{\text{had}}\tau_{\text{had}}$ channel + CR

$$\hat{\mu} = 0.7^{+1.9}_{-1.6}$$

$\Delta\mu$

-0.5 0.0 0.5

$\tau_{\text{had}}\tau_{\text{had}}$ SMBDT bin 13

$H \rightarrow \tau\tau$ acceptance (ggF, heavy flavour)

$\tau_{\text{had}}\tau_{\text{had}}$ SMBDT bin 12

HH cross section (scales + m_{top} scheme)

tW acceptance (interference)

$Z + \text{HF}$ acceptance (μ_f, μ_r)

$Z + \text{HF}$ acceptance (MadGraph)

Fake- τ_{had} scale factor (FF extrapolation)

FF non-multi-jet subtraction (other)

JER Effective NP 4

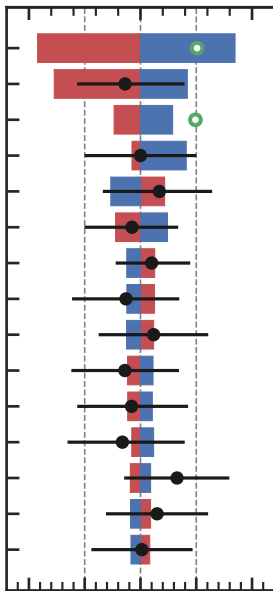
$W + \text{jets}$ acceptance

τ_{had} energy scale (physics list)

$t\bar{t}$ acceptance (NLO+PS matching)

JER Effective NP 2

$t\bar{t}$ acceptance (parton shower, $\tau_{\text{had}}\tau_{\text{had}}$)



$\Delta\mu$ (post-fit impact on μ):

■ $+1\sigma$ ■ -1σ

$\hat{\theta}$ (best-fit nuisance parameter):

● α ● γ ● Normalisation

$\hat{\theta}$