

Pre-fit impact on $\mu(tHq)$:

$\square \theta = \hat{\theta} + \Delta\theta$ $\square \theta = \hat{\theta} - \Delta\theta$

$\Delta\mu(tHq)$

-1

-0.5

0

0.5

1

Post-fit impact on $\mu(tHq)$:

$\blacksquare \theta = \hat{\theta} + \Delta\hat{\theta}$ $\blacksquare \theta = \hat{\theta} - \Delta\hat{\theta}$

— Nuis. Param. Pull

JES effective NP stat. 6

Tau fake norm.

JER DataVsMC AFII

JER EffectiveNP 3

Tau fake shape

JES pileup offset μ

Diboson XS

JER EffectiveNP 1

tW PS + had.

JER EffectiveNP 4

JES η intercalibration modelling

Minor bkg. XS

Diboson NNPDF30 25

Diboson NNPDF30 42

Diboson $\mu_R \mu_F$ scale

JER EffectiveNP 9

tWZ (alt. DR)

JER DataVsMC MC16

Diboson μ_R scale

JER EffectiveNP 12restTerm

$\sqrt{s} = 13 \text{ TeV}, 140 \text{ fb}^{-1}$

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

-2

-1.5

-1

-0.5

0

0.5

1

1.5

2