

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

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

$\Delta\mu(tHq)$
-8 -6 -4 -2 0 2 4 6 8

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

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

— Nuis. Param. Pull

γ (SRBDTtHq2L1TAUOS bin 3)

$t\bar{t}$ FSR

$t\bar{t}Z$ NLO gen. + PS + had.

JER EffectiveNP 1

$k(Z+jets)$

JER EffectiveNP 2

Diboson NLO gen. + PS + had.

$t\bar{t}H$ PS + had.

$t\bar{t}$ NLO gen.

tHq PS + had.

γ (SRBDTtHq2L1TAUOS bin 0)

Tau fake norm.

γ (SRBDTtHq2L1TAUOS bin 1)

$k(t\bar{t})$

tZq PS + had.

$t\bar{t}$ hdamp=3m_{top}

JER EffectiveNP 7

JER EffectiveNP 12restTerm

JER EffectiveNP 10

$t\bar{t}$ PS + had.

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

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

