

 $\widehat{Y}_t = 1.16^{+0.24}_{-0.35}$ arXiv:2009.07123 **CMS** Supplementary Jet energy RelativeBal (2016) 31 Pileup 32 Jet energy AbsoluteScale 33 prefire (2017) 34 35 NNPDF variation 1 (2016) Jet energy Fragmentation 36 b fragmentation 37 Jet energy PileupPtBB (2018) 38 Jet energy *PileupDataMC* (correlated) 39 Jet energy RelativeFSR (2016) 40 Muon reconstruction efficiency (2016) 41 lumi (2016) 42 Jet energy *PileupDataMC* (2016) 43 b tagging efficiency (2017) 44 45 b tagging miss-ID efficiency (2017) Jet energy *RelativeBal* (correlated) 46 Jet energy PileupPtBB (2016) 47 b decay 48 Jet energy RelativePtEC1 (2017) 49 lumi (2018) 50 NNPDF variation 2 (correlated) 51 vv_norm 52 b tagging miss-ID efficiency (2016) 53 54 Jet energy RelativeJEREC1 (2016) 55 Electron reconstuction efficiency (2018) Jet energy PileupDataMC (2018) 56 Jet energy RelativeBal (2018) 57 58 rsfs Muon reconstruction efficiency (2017) 59 NNPDF variation 0 (2016) 60 -0.010.01 0 $(\hat{\theta} - \theta_0)/\Delta\theta$ -- Pull +1σ Impact -1σ Impact +1σ Impact — -1σ Impact (expected)



