$\widehat{Y}_t = 1.16^{+0.24}_{-0.35}$ arXiv:2009.07123 **CMS** Supplementary Final state radiation scale (correlated) 1 2 Electroweak correction uncertainty 3 ME factorization scale Jet energy FlavorOCD Initial state radiation scale (correlated) 5 Final state radiation scale (2016) 6 ME renormalization scale 7 Top quark mass 8 Muon reconstruction efficiency (correlated) 9 Single top normalization 10 NNPDF variation 2 (2016) 11 b tagging miss-ID efficiency (correlated) 12 Jet energy *RelativeFSR* (correlated) 13 Jet energy TimePtEta (2016) 14 NNPDF variation 4 (correlated) 15 NNPDF  $\alpha_s$  variation (correlated) 16 NNPDF variation 1 (correlated) 17 Muon reconstruction efficiency (2018) 18 b tagging efficiency (correlated) 19 b tagging efficiency (2018) 20 NNPDF variation 0 (correlated) 21 Jet energy SinglePionECAL 22 23 Jet energy resolution (2018) Jet energy RelativeSample (2016) 24 25 Jet energy AbsoluteMPFBias Jet energy TimePtEta (2018) 26 27 Jet energy RelativeFSR (2018) 28 tt normalization Drell-Yan normalization 29 Jet energy RelativeBal (2016) 30 -2 -0.050 0.05 → Pull +1σ Impact -1σ Impact





