CMS *Preliminary*

$\hat{\mu} = 0.33^{+0.26}_{-0.26}$

Legend:
- Fit constraint (obs.)
- +1σ Impact (obs.)
- −1σ Impact (obs.)
- Fit constraint (exp.)
- +1σ Impact (exp.)
- −1σ Impact (exp.)

Nuisance parameters (top to bottom):
- Collinear gluon splitting
- t̄tB normalisation — $1.19^{+0.13}_{-0.12}$
- PS scale ISR (t̄tB)
- QCD normalisation ($\geq$ 9 jets, 2018) — $0.964^{+0.015}_{-0.016}$
- QCD normalisation ($\geq$ 9 jets, 2017) — $0.966^{+0.016}_{-0.017}$
- QCD normalisation ($\geq$ 9 jets, 2016) — $0.982^{+0.021}_{-0.021}$
- QCD normalisation (8 jets, 2018) — $0.982^{+0.013}_{-0.007}$
- Jet energy scale (1)
- ME-PS matching (t̄tLF)
- MC stat. (1)
- QCD normalisation (8 jets, 2017) — $0.979^{+0.012}_{-0.012}$
- Jet energy scale (2)
- QCD normalisation (7 jets, 2017) — $0.991^{+0.014}_{-0.006}$
- QCD normalisation (8 jets, 2016) — $0.991^{+0.014}_{-0.014}$
- Underlying event (t̄t)
- $\sigma_{t\bar{t}H}$ (renorm./fact. scales)
- MC stat. (2)
- MC stat. (3)
- QCD normalisation (7 jets, 2018) — $0.987^{+0.009}_{-0.009}$
- Jet energy scale (3)

x-axis (left): $(\hat{\theta} - \theta_0) / \Delta\theta$

x-axis (right): $\Delta\hat{\mu}$