

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $|y^{t\bar{t}}| \in [1,2]$

■ ATLAS

— Pythia 8.315 qcdcr0qq1

 $1/\sigma \cdot \# \cdot \frac{d^2\sigma}{dy^{t\bar{t}} dm^{t\bar{t}}} \cdot \# \text{ [TeV]}^{-1}$

Rivet 4.1.0, 100k events

mcplots.cern.ch [arXiv:2401.10621]

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

 $m^{t\bar{t}} \text{ [TeV]}$

1

2

3

4