

13000 GeV pp

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

■ ATLAS

○ Pythia 6.428 390

□ Pythia 6.428 391

◇ Pythia 6.428 392

* Pythia 6.428 396

+ Pythia 6.428 397

x Pythia 6.428 398

 $1/\sigma \cdot \# \text{cdot} \cdot \# d^2\sigma / d|y^{t\bar{t}}| dm^{t\bar{t}} \cdot \# \{\text{TeV}\}^{-1}$

1

 10^{-1} 10^{-2}

(ATLAS_2022_I2077575)

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:2401.10621]

Ratio to ATLAS

2

1

0.5

2

1

0.5

 $m^{t\bar{t}} \cdot \# \{\text{TeV}\}$

1

2

3

4