

13000 GeV pp

 $t\bar{t}$ Parton-level $t\bar{t}$ invariant mass, $p_{\{T\}}^{t\bar{t}} \in [0.35, 1] \# \{\text{TeV}\}$

■ ATLAS

○ Pythia 6.428 390

□ Pythia 6.428 391

◇ Pythia 6.428 392

★ Pythia 6.428 396

★ Pythia 6.428 397

★ Pythia 6.428 398

 $1 / \sigma \# \# \text{cdot} \# d^2\sigma / dp_{\{T\}}^{t\bar{t}} \# \{\text{TeV}\}^2$

1

 10^{-1} 10^{-2} 10^{-3}

(ATLAS_2022_I2077575)

Rivet 4.1.0, $\geq 100\text{k events}$

mcplots.cern.ch [arXiv:2401.10621]

Ratio to ATLAS

2

1

0.5

2

1

0.5

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

4

3

2

1