

13000 GeV pp

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

■ ATLAS

—▲ Pythia 8.201 default

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

1

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

Ratio to ATLAS

2

1

0.5

Rivet 4.1.0, 100k events

mcplots.cern.ch [arXiv:2401.10621]

(ATLAS_2022_I2077575)

2

1

0.5

 $m_{\{T\}}^{t\bar{t}} \# \{\text{TeV}\}$

4

3

2

1