

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 8.315 qcdcr2

 $1 / \sigma \# \# \text{cdot} \# d^2\sigma / dp_{\{T\}}^{t\bar{t}} dm_{t\bar{t}} \# \{\{\text{TeV}\}^2\}$ 10^{-1} 10^{-2} 10^{-3}

(ATLAS_2022_I2077575)

Rivet 4.1.0, 100k events

mcplots.cern.ch [arXiv:2401.10621]

Ratio to ATLAS

2

1

0.5

2

1

0.5

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

1

2

3

4