

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $p_{\{T\}}^{t,1} \in [0.75, 2] \# \{\text{TeV}\}$

■ ATLAS

—▲ Pythia 8.315 default

— Pythia 8.315 tune-A14-CTEQL1

- - - Pythia 8.315 tune-A14-MSTW2008LO

... Pythia 8.315 tune-A14-NNPDF2.3LO

- -△ Pythia 8.315 tune-CUETP8S1

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

1

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

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

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

mcplots.cern.ch [arXiv:2401.10621]

2

1

0.5

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

1

2

3

4