

13000 GeV pp

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

- ATLAS
- ▲ Pythia 8.315 default
- -● Pythia 8.315 tune-2c
- -○ Pythia 8.315 tune-2m

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

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

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

4

3

2

1