

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $|y^{t,1}| \in [0,0.2]$ $1/\sigma \# \text{cdot} \# d^2\sigma / d|y^{t,1}| dm^{t\bar{t}} \# [\{\text{TeV}\}^{-1}]$ Rivet 4.1.0, $\geq 100\text{k events}$

mcplots.cern.ch [arXiv:1306.3436]

- ATLAS
- ▲ Pythia 8.315 default
- ✱ Pythia 8.315 tune-4c
- ◻ Pythia 8.315 tune-4cx

(ATLAS_2022_I2077575)

Ratio to ATLAS

 10^{-2}

2

1

0.5

2

1

0.5

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

1 2 3 4