

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $|y^{t\bar{t}}| \in [0.2, 0.5]$ $1/\sigma \cdot \# \cdot d^2\sigma / d|y^{t\bar{t}}| dm^{t\bar{t}} \cdot \# \cdot \{\text{TeV}\}^{-1}$ Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:2401.10621]

- ATLAS
- Pythia 6.428 391
- +— Pythia 6.428 393
- Pythia 6.428 394
- ▼— Pythia 6.428 395

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

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