

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:2401.10621]

- ATLAS
- △ Pythia 6.428 370
- △ Pythia 6.428 373
- Pythia 6.428 374
- Pythia 6.428 375
- △ Pythia 6.428 381
- ▽ Pythia 6.428 382

(ATLAS_2022_I2077575)

Ratio to ATLAS

0.5

2

1

0.5

2

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