

13000 GeV pp

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

mcplots.cern.ch [arXiv:2401.10621]

- ATLAS
- ▲ Pythia 8.315 default
- ▲ Pythia 8.315 default-noCR

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

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