

13000 GeV pp

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

Rivet 4.1.0, 100k events

mcplots.cern.ch [arXiv:2401.10621]

 10^{-1}

ATLAS

Pythia 8.315 default

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

2

1

1

0.5

0.5

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

4

3

2

1