

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $|y^{t\bar{t}}| \in [0.2, 0.5]$ Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:2401.10621]

 $1/\sigma \# \text{cdot} \# d^2\sigma / d|y^{t\bar{t}}| dm^{t\bar{t}} \# [\{\text{TeV}\}^{-1}]$

10

1

 10^{-1}

■ ATLAS

□ Pythia 6.428 346

△ Pythia 6.428 347

◇ Pythia 6.428 348

+ Pythia 6.428 349

△ Pythia 6.428 370

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

2

1

0.5

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