

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $|y^{t,1}| \in [0.5, 1]$ Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:2401.10621]

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

10

1

 10^{-1} 10^{-2}

■ ATLAS

○ Pythia 6.428 345

□ Pythia 6.428 346

△ Pythia 6.428 370

▲ Pythia 6.428 ambt1

● Pythia 6.428 z1

● Pythia 6.428 z2

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

2

1

0.5

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