

13000 GeV pp

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

mcplots.cern.ch [arXiv:2401.10621]

2

1

0.5

4

 $m^{t\bar{t}} \# [\text{TeV}]$  $d^2\sigma / d|y^{t\bar{t}}| dm^{t\bar{t}} \# [\text{fb}] \# [\text{TeV}^{-1}]$  $10^4$  $10^3$  $10^2$ 

10

2

1

0.5



ATLAS



Pythia 6.424 ambt1



Pythia 6.424 z1

(ATLAS\_2022\_I2077575)

Ratio to ATLAS

1

2

3

4