

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 6.426 359

Pythia 6.426 a

Pythia 6.426 dw

Pythia 6.426 p0

Pythia 6.426 pro-q2o

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

2

1

0.5

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