

13000 GeV pp

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

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)

Rivet 4.1.0, ≥ 100k events

mcplots.cern.ch [arXiv:2401.10621]

Ratio to ATLAS

2

1

0.5

2

1

0.5

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

1 2 3 4