

13000 GeV pp

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

mcplots.cern.ch [arXiv:2401.10621]

 $1/\sigma \cdot \# \text{cdot} \cdot \# \text{d}^2\sigma / \text{d}y^{\bar{t}} \text{d}m^{\bar{t}} \cdot \# \{\text{TeV}\}^{-1}$

10

1

 10^{-1}

- ATLAS
- ▲ Pythia 8.315 default
- -▼ Pythia 8.315 tune-AU2
- -◇ Pythia 8.315 tune-AU2lox
- -□ Pythia 8.315 tune-AU2loxx
- -★ Pythia 8.315 tune-AU2m

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

2

1

0.5

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