

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, 100k events

mcplots.cern.ch [arXiv:1306.3436]

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

■ ATLAS
—▲ Pythia 8.244 default

(ATLAS_2022_I2077575)

Ratio to ATLAS

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