

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: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 6.428 370
- Pythia 6.428 391
- Pythia 6.428 default
- Pythia 8.235 default

(ATLAS_2022_I2077575)

Ratio to ATLAS

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