

13000 GeV pp

 $t\bar{t}$ Parton-level $t\bar{t}$ invariant mass, $|y^{t,1}| \in [0.5, 1]$ Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

 $m^{t\bar{t}} \# [\text{TeV}]$ $d^2\sigma / d|y^{t,1}| dm^{t\bar{t}} \# [\text{fb}] \# \{\text{TeV}\}^{-1}$

- ATLAS
- △ Pythia 6.428 370
- Pythia 6.428 391
- Pythia 6.428 default
- ☆ Pythia 6.428 pro-q2o

(ATLAS_2022_I2077575)

Ratio to ATLAS

