

13000 GeV pp

 $t\bar{t}$ Parton-level $t\bar{t}$ invariant mass, $|y^{t\bar{t}}| \in [1,2]$

- ATLAS
- △ Pythia 6.428 370
- - * Pythia 6.428 378
- - * Pythia 6.428 379

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS_2022_I2077575)

2

1

0.5

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

Ratio to ATLAS

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