

13000 GeV pp

 $t\bar{t}$ Parton-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]

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

10

1

 10^{-1}

- ATLAS
- Pythia 6.428 346
- △ Pythia 6.428 347
- ◇ Pythia 6.428 348
- + Pythia 6.428 349
- △ Pythia 6.428 370

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

2

1

0.5

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

1

2

3

4