

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $|y^{t,1}| \in [1,2]$ Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

4

 $d^2\sigma / d|y^{t,1}| dm^{t\bar{t}} \# \{fb\} \# \{TeV\}^{-1}$ 10^3 10^2

10

1



ATLAS



Pythia 6.428 370



Pythia 6.428 391



Pythia 6.428 default



Pythia 8.315 default

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

1

2

3

4

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