

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]

2

1

0.5

 $m^{t\bar{t}} \# [\text{TeV}]$ $d^2\sigma / d|y^{t\bar{t}}| dm^{t\bar{t}} \# [\text{fb}] \# \{\text{TeV}\}^{-1}$ 10^4
 10^3
 10^2
10

■ ATLAS
—▲— Pythia 8.201 default
—▲— Pythia 8.201 default-noFsr
—▲— Pythia 8.201 default-noRap

(ATLAS_2022_I2077575)

Ratio to ATLAS

2
1
0.5

1 2 3 4

