

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

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

10

ATLAS

Pythia 8.315 default

Pythia 8.315 tune-4c

Pythia 8.315 tune-4cx

(ATLAS\_2022\_I2077575)

Ratio to ATLAS

2

1

0.5

1

2

3