

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

1

2

1

0.5

■

ATLAS

Herwig++ 2.7.1 default

Herwig 7.2.1 default

Pythia 8.201 default

Sherpa 2.2.4 default

(ATLAS_2022_I2077575)

Ratio to ATLAS

1

2

3

4