

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $|y^{t\bar{t}}| \in [0, 0.2]$ $1/\sigma \cdot \# \text{cdot} \# d^2\sigma / d|y^{t\bar{t}}| dm^{t\bar{t}} \# [\text{TeV}]^{-1}$ Rivet 4.1.0, $\geq 100\text{k}$ events

mcplots.cern.ch [arXiv:1306.3436]

 10^{-1}

ATLAS

Pythia 8.315 default

Sherpa 1.2.3 default

(ATLAS_2022_I2077575)

Ratio to ATLAS

0.5

2

1

2

1

0.5

 $m^{t\bar{t}} \# [\text{TeV}]$ 