

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

2

1

0.5

ATLAS

Herwig++ 2.7.1 default

Herwig++ 2.7.1 UE-EE-5

Herwig 7.2.1 default

(ATLAS_2022_I2077575)

Ratio to ATLAS

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