

13000 GeV pp

 $t\bar{t}$ Parton-level $t\bar{t}$ invariant mass, $|y^{t\bar{t}}| \in [0.5, 1]$ $1 / \sigma \# \text{cdot} \# \text{d}^2\sigma / \text{d}y^{t\bar{t}} \text{d}m^{t\bar{t}} \# [\text{TeV}^{-1}]$

Rivet 4.1.0, 100k events

mcplots.cern.ch [arXiv:1306.3436]

■ ATLAS
—▲ Pythia 8.186 default

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

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