

13000 GeV pp

 $t\bar{t}$ Parton-level $t\bar{t}$ invariant mass, $|y^{t\bar{t}}| \in [0, 0.2]$

- ATLAS
- △ Pythia 6.428 370
- -□ Pythia 6.428 391
- -■ Pythia 6.428 default
- ▲ Pythia 8.315 default

Rivet 4.1.0, ≥ 100k events

mcplots.cern.ch [arXiv:2401.10621]

(ATLAS_2022_I2077575)

2

1

0.5

 $d^2\sigma / d|y^{t\bar{t}}| dm^{t\bar{t}} \# \{\text{fb}\} \# \{\text{TeV}^{-1}\}$

Ratio to ATLAS

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