

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $p_{\{T\}}^{t\bar{t}} \in [0.35, 1] \# \{\text{TeV}\}$

- ATLAS
- - ■ Pythia 6.424 default
- - ▲ Pythia 8.201 default

 $1 / \sigma \# \# \text{cdot} \# \text{d}^2 \sigma / \text{dp}_{\{T\}}^{t\bar{t}} \text{dm}_{\{T\}}^{t\bar{t}} \# \{\{\text{TeV}\}^2\}$ 10^{-1}
 10^{-2} 10^{-3}

Ratio to ATLAS

0.5

2

1

1

2

3

4

 $m_{t\bar{t}} \# \{\{\text{TeV}\}\}$ Rivet 4.1.0, $\geq 100\text{k events}$

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS_2022_I2077575)

2

1

0.5

