

13000 GeV pp

 $t\bar{t}$ Particle-level $t\bar{t}$ invariant mass, $p_{T}^{t\bar{t}} \in [0.2, 0.35] \text{ # TeV}$

- ATLAS
- △ Pythia 6.428 370
- -□ Pythia 6.428 391
- -■ Pythia 6.428 default
- △ Pythia 8.201 default

 $1 / \sigma \text{ # } \# \text{cdot} \text{ # } d^2\sigma / dp_{T}^{t\bar{t}} dm_{t\bar{t}}^2 \text{ # } [\text{TeV}]^2$

10

1

 10^{-1} Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

2

1

0.5

 $m_{t\bar{t}} \text{ # } [\text{TeV}]$

1 2 3 4