

13000 GeV pp

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

- ATLAS
- - ■ Pythia 6.425 default
- - ☆ Pythia 6.425 pro-q2o

 $d^2\sigma / dp_{\text{T}}^{t\bar{t}} d m_{t\bar{t}}^{\text{fb}} \text{ \# \{TeV\}^2}$ 10^2

10

1

2

1

0.5

Rivet 4.1.0, $\geq 100\text{k events}$

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

(ATLAS_2022_I2077575)

Ratio to ATLAS

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

1 2 3 4

