

13000 GeV pp

 $t\bar{t}$ Parton-level $t\bar{t}$ invariant mass, $p_{\text{T}}^{t\bar{t}} \in [0, 0.1] \text{ TeV}$

- ATLAS
- ▲ Pythia 8.235 default
- -▲ Pythia 8.235 default-CD
- -▲ Pythia 8.235 default-DL
- ...▲ Pythia 8.235 default-MBR

 $d^2\sigma / dp_{\text{T}}^{t\bar{t}} dm_{t\bar{t}}^2 \text{ [fb] \# [TeV]}^2$ 10^5 10^4 10^3 Rivet 4.1.0, $\geq 100\text{k events}$

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

2

1

0.5

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

4

3

2

1

0