

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 8.201 default

- -▲ Pythia 8.201 default-CD

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

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS_2022_I2077575)

Ratio to ATLAS

2

1

0.5

2

1

0.5

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

4

3

2

1