

13000 GeV pp

 $t\bar{t}$ $m(t\bar{t})$ (ATLAS semileptonic $t\bar{t}$)

- ATLAS
- ▲ Pythia 8.201 default
- -▲ Pythia 8.201 default-CD

 $1/\sigma d^2\sigma/dm^{t\bar{t}} dy^{t\bar{t}} [1/\text{GeV}]$ 10^{-3} 10^{-4} 10^{-5} Rivet 3.1.10, $\geq 400k$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1750330

Ratio to ATLAS

2

1

0.5

2

1

0.5

 $m^{t\bar{t}} [\text{GeV}], |y^{t\bar{t}}| \text{ in } [1.3, 2.0]$

1000

2000

3000