

13000 GeV pp

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

■ ATLAS

—▲ Pythia 8.183 default

 $\frac{d^2\sigma}{dm^{t\bar{t}} dy^{t\bar{t}}} [pb/GeV]$ 10^{-3} 10^{-4} 10^{-5}

Rivet 3.1.10, 300k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1750330

Ratio to ATLAS

2

1

0.5

2

1

0.5

1000

2000

3000

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