

13000 GeV pp

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

■ ATLAS

—▲ Pythia 8.183 default

 $1 / \sigma d^2\sigma / d m^{t\bar{t}} d |y^{t\bar{t}}|$ [1/GeV] 10^{-2} 10^{-3} 10^{-4} 10^{-5} 10^{-6} 10^{-7} 10^{-8} 10^{-9} 10^{-10} 10^{-11} 10^{-12} 10^{-13} 10^{-14}

ATLAS_2019_I1750330

Rivet 3.1.10, 300k events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1

0.5

2

1

0.5

500

1000

1500

2000

 $m^{t\bar{t}}$ [GeV], $|y^{t\bar{t}}|$ in [0.4,0.8]