

13000 GeV pp

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

- ATLAS
- - □ Herwig 7.2.1 default
- - ▲ Pythia 8.308 default

 $1 / \sigma d^2\sigma / d m^{t\bar{t}} d |y^{t\bar{t}}| [1/\text{GeV}]$ 10^{-5} 10^{-4} 10^{-3} Rivet 3.1.10, $\geq 2.1\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2019_I1750330

Ratio to ATLAS

2

1

0.5

2

1

0.5

 $m^{t\bar{t}} [\text{GeV}], |y^{t\bar{t}}| \text{ in } [1.2, 2.5]$

500

1000

1500

2000