

13000 GeV pp

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

- ATLAS
- △ Pythia 6.428 370
- Pythia 6.428 default
- ▲ Pythia 8.308 default

 $1 / \sigma d^2\sigma / d m^{t\bar{t}} d H_T^{t\bar{t}} [1/\text{GeV}^2]$  $10^{-8}$  $10^{-7}$  $10^{-6}$ Rivet 3.1.10,  $\geq 2.1\text{M}$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2019\_I1750330

Ratio to ATLAS

0.5

1

2

0.5

1

2

 $m^{t\bar{t}} [\text{GeV}], H_T^{t\bar{t}} \text{ in } [780, 2500] [\text{GeV}]$ 

2000

1000

3000