

13000 GeV pp

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

- ATLAS
- ▲ Pythia 8.308 default
- ▲ Pythia 8.308 default-noFsr
- ▲ Pythia 8.308 default-noRap

 $\frac{d^2\sigma}{dm^{t\bar{t}} dH_T^{t\bar{t}}} \text{ [pb/GeV}^2\text{]}$ 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

1000

2000

3000

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