

13000 GeV pp

 $t\bar{t}$ Boosted $l+jets$

- ATLAS
- - □ Herwig 7.2.1 default
- - ▲ Pythia 8.301 default
- - ◆ Sherpa 2.2.4 default

 $1 / \sigma d^2\sigma / dm_{t\bar{t}} dH_T^{t\bar{t}} [1/\text{GeV}^2]$ 10^{-6} 10^{-7} 10^{-8} Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS_2019_I1750330)

Ratio to ATLAS

2

1

0.5

2

1

0.5

1000

2000

3000

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