

13000 GeV pp

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

- ATLAS
- Pythia 6.428 391
- + Pythia 6.428 393
- Pythia 6.428 394
- ▼ Pythia 6.428 395

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

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS\_2019\_I1750330)

Ratio to ATLAS

2

1

0.5

2

1

0.5

1000

2000

3000

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