

13000 GeV pp

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

■ ATLAS

○ Herwig++ 2.7.1 default

□ Herwig 7.0.4 default

▲ Herwig 7.0.4 UE-MMHT

 $\frac{d^2\sigma}{dm_{t\bar{t}} dH_T^{t\bar{t}}} [\text{pb/GeV}^2]$ 10^{-5} 10^{-6} 10^{-7} 10^{-8}

(ATLAS_2019_I1750330)

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1

0.5

2

1

0.5

1000

2000

3000

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