

13000 GeV pp

 $t\bar{t}$ $t\bar{t}H\bar{H}$ (ATLAS semileptonic $t\bar{t}b\bar{a}$)

- ATLAS
- ▲ Pythia 8.170 default
- -▲ Pythia 8.170 default-CD
- ...▲ Pythia 8.170 default-MBR

 $1/\sigma d^2\sigma / dN^{\text{jets}} dH_T^{\{t\bar{t}b\bar{a}\}} [1/\text{GeV}]$ 10^{-3} 10^{-4} 10^{-5} 10^{-6}

2

1

0.5

Rivet 3.1.10, $\geq 300k$ events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

ATLAS_2019_I1750330

Ratio to ATLAS

 $H_T^{\{t\bar{t}b\bar{a}\}} [\text{GeV}], N^{\text{jets}} = 6$

0

500

1000

1500

2000

0

500

1000

1500

2000