

13000 GeV pp

 $t\bar{t}$ $t\bar{t}H\bar{t}\bar{t}$ (ATLAS semileptonic $t\bar{t}$ bar) 10^{-2} 10^{-3} 10^{-4} 10^{-5}

■ ATLAS

○ Pythia 6.428 345

□ Pythia 6.428 346

△ Pythia 6.428 370

■ Pythia 6.428 default

▲ Pythia 8.315 default

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

500

1000

1500

2000

2500