

13000 GeV pp

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

- ATLAS
- ▲ Pythia 8.230 default
- -▲ Pythia 8.230 default-CD
- -▲ Pythia 8.230 default-DL
- ...▲ Pythia 8.230 default-MBR

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS_2019_I1750330)

Ratio to ATLAS

0.5

1

2

 10^{-2} 10^{-1}

1

10

0.5

1

2