

13000 GeV pp

 $t\bar{t}$

Cross section(CMS ttbb production)

- CMS
- △ Pythia 6.428 370
- - -■ Pythia 6.428 default
- ▲ Pythia 8.170 default

Rivet 3.1.10, ≥ 500k events

mcplots.cern.ch [arXiv:1306.3436]

CMS_2019_I1753720

Ratio to CMS

0.5 1 2

2 1 0.5

Fiducial PI phase space

0.5 1 1.5