

13000 GeV pp

 $t\bar{t}$

Cross section(CMS ttbb production)

cross section (pb)

■ CMS
—▲ Pythia 8.176 default
- -□ Pythia 8.176 tune-4cx

4
3.5
3
2.5
2
1.5
1
0.5

Rivet 3.1.10, $\geq 400k$ events
mcplots.cern.ch [arXiv:1306.3436]

CMS_2019_I1753720

Ratio to CMS

2
1
0.5

2
1
0.5

Fiducial PI phase space

0.5

1

1.5