

13000 GeV pp

 $t\bar{t}$ 

## Cross section(CMS ttbb production)

- CMS
- ▲ Pythia 8.170 default

cross section (pb)

4  
3.5  
3  
2.5  
2  
1.5  
1  
0.5Rivet 3.1.10, 500k events  
mcplots.cern.ch [arXiv:1306.3436]

CMS\_2019\_I1753720

Ratio to CMS

2  
1  
0.52  
1  
0.5

0.5

1

1.5

Fiducial PI phase space

