

13000 GeV pp

 $t\bar{t}$

Cross section(CMS ttbb production)

cross section (pb)

- CMS
- ▲ Pythia 8.212 default
- ...◆ Sherpa 2.2.0 default

Rivet 3.1.10, $\geq 400k$ 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