

13000 GeV pp

 $t\bar{t}$

Cross section(CMS ttbb production)

cross section (pb)

- CMS
- - ○ - - Herwig++ 2.6.0 default
- - □ - - Herwig 7.2.1 default

Rivet 3.1.10, $\geq 400k$ events

mcplots.cern.ch [arXiv:1306.3436]

CMS 2019, 11753720

Ratio to CMS

0.5

1

2

0.5

1

2

Fiducial PI phase space

0.5

1

1.5