

13000 GeV pp

Top (t-channel)

 $p_T^l$  (CMS single top) $10^{-1}$  $10^{-2}$  $10^{-3}$ 

- CMS
- ▲ Pythia 8.315 default
- -▲ Pythia 8.315 default-CD
- -▲ Pythia 8.315 default-DL
- ...▲ Pythia 8.315 default-MBR

(CMS\_2019\_I1744604)

Rivet 4.1.0,  $\geq 1.5$ M events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to CMS

2

1

0.5

2

1

0.5

50

100

150

200