

7000 GeV pp

Soft QCD

Diffractive  $\xi$  ( $|\eta^{jj_2}| < 4.4$ ,  $p_T^{jj_2} > 20$  GeV)

- CMS
- ▲ Pythia 8.308 default
- -▲ Pythia 8.308 default-CD
- -▲ Pythia 8.308 default-DL
- ...▲ Pythia 8.308 default-MBR

Rivet 3.1.10,  $\geq 2.7$ M events

mcplots.cern.ch [arXiv:1306.3436]

CMS\_2012\_I1184941

Ratio to CMS

2

1

0.5

 $10^{-2}$  $10^{-3}$  $\xi$ 