

7000 GeV pp

Soft QCD

Diffractive  $\xi$  ( $|\eta_{j_2}| < 4.4$ ,  $p_T^{j_2} > 20$  GeV)

- CMS
- - □ Herwig 7.0.3 default
- - ▲ Pythia 8.180 default
- - ◆ Sherpa 2.2.8 default

Rivet 3.1.0,  $\geq 7.3$ M events

mcplots.cern.ch [arXiv:1306.3436]

CMS\_2012\_I1184941

Ratio to CMS

2

1

0.5

 $10^{-2}$   
 $\xi$  $10^{-3}$  $d\sigma_{ij}/d\xi$  [ $\mu\text{b}$ ] $10^2$ 

10

1

2

1

0.5