

7000 GeV pp

Soft QCD

 $dN/d\eta$ Charged Particle  $\eta$  Distribution ( $N_{ch} > 0, p_T > 0.04$  GeV)

- TOTEM
- - □ Herwig 7.2.0 default
- - ▲ Pythia 8.180 default
- - ◆ Sherpa 1.4.5 default

8

7

6

5

4

3

2

1

0

TOTEM\_2012\_I1115294

Rivet 3.1.0,  $\geq 5.4$ M events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to TOTEM

2

1

0.5

2

1

0.5

5.5

6

 $|\eta|$ 