

7000 GeV pp

Soft QCD

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

- TOTEM
- Herwig++ 2.7.1 default
- Herwig 7.2.1 default
- ▲- Pythia 8.308 default
- ◆- Sherpa 2.2.9 default

8

7

6

5

4

3

2

1

0

Rivet 3.1.10,  $\geq 3.2$ M events

mcplots.cern.ch [arXiv:1306.3436]

TOTEM\_2012\_I1115294

2

2

Ratio to TOTEM

1

0.5

1

0.5

5.5

6

 $\eta$ 