

7000 GeV pp

Soft QCD

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

8

7

6

5

4

3

2

1

0

0

1

2

3

4

5

6

7

8

9

10

11

12

13

14



TOTEM



Pythia 6.427 370



Pythia 6.427 378



Pythia 6.427 379

TOTEM\_2012\_I1115294

Rivet 3.1.0,  $\geq 7.2\text{M}$  events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to TOTEM

2

1.5

1

0.5

0

2

1

0.5

0

5.5

6

 $|\eta|$ 