

7000 GeV pp

Soft QCD

Charged particle  $|\eta|$  at 7 TeV, track  $p_T > 40$  MeV, for  $N_{ch} \geq 1$  $dN/d\eta$ 

8

7

6

5

4

3

2

1

0

2

1

0.5

0

0

0

0

0

0

0

0

0

0

0

0

0

0



TOTEM



Pythia 6.428 370



Pythia 6.428 371



Pythia 6.428 372



Pythia 6.428 376

(TOTEM\_2012\_I1115294)

Ratio to TOTEM

2

1

0.5

0

0

0

0

0

0

0

0

5.5

6

 $|\eta|$ Rivet 4.1.0,  $\geq 100k$  events

mcplots.cern.ch [arXiv:2401.10621]