

7000 GeV pp

Soft QCD

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

- TOTEM
- Pythia 6.428 391
- +--- Pythia 6.428 393
- Pythia 6.428 394
- ▼--- Pythia 6.428 395

 $dN/d\eta$ 8  
7  
6  
5  
4  
3  
2  
1  
0Rivet 4.1.0,  $\geq 100k$  events

mcplots.cern.ch [arXiv:2401.10621]

(TOTEM\_2012\_I1115294)

Ratio to TOTEM

2  
1  
0.52  
1  
0.5 $|\eta|$ 

5.5

6