

7000 GeV pp

Soft QCD

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

■ TOTEM

— Pythia 8.307 ppthermNoScat

 $dN/d\eta$ 8
7
6
5
4
3
2
1
2
1
0.5

Rivet 4.1.0, 100k events

mcplots.cern.ch [arXiv:2401.10621]

(TOTEM_2012_I1115294)

Ratio to TOTEM

2
1
0.5 $|\eta|$

5.5

6