

7000 GeV pp

Soft QCD

Charged Particle η Distribution ($N_{\text{ch}} > 0, p_{\text{T}} > 0.04 \text{ GeV}$)

- TOTEM
- ▲ Pythia 8.308 default
- Pythia 8.308 tune-A14-CTEQL1
- - Pythia 8.308 tune-A14-MSTW2008LO
- ⋯ Pythia 8.308 tune-A14-NNPDF2.3LO
- -△ Pythia 8.308 tune-CUETP8S1

 $dN/d\eta$ Rivet 3.1.10, $\geq 2.2\text{M}$ events

mcplots.cern.ch [arXiv:1306.3436]

TOTEM_2012_I1115294

Ratio to TOTEM

2

1

0.5

 $|\eta|$ 