

7000 GeV pp

Soft QCD

Charged Particles Distribution ($N_{ch} > 0, p_T > 0.04$ GeV) $dN/d\eta$

8

7

6

5

4

3

2

1

0

2

1

0.5

0

2

1

0.5

0

2

1

0.5

0

0

■ TOTEM

- - ■ Pythia 6.428 359

- - △ Pythia 6.428 370

- - ▲ Pythia 6.428 a

- - ▼ Pythia 6.428 dw

- - ○ Pythia 6.428 p0

- - ☆ Pythia 6.428 pro-q20

TOTEM_2012_I1115294

Rivet 3.1.10, ≥ 2.9 M events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

0

2

1

0.5

0

0

5.5

6

 η 