

7000 GeV pp

Soft QCD

Average  $p_T$  vs  $N_{ch}$  ( $p_T^{ch} > 0.25$ ,  $|\eta^{ch}| < 2.4$ , all charged particles)

- CMS
- ▲ Pythia 8.212 default
- -▲ Pythia 8.212 default-CD
- -▲ Pythia 8.212 default-DL
- ...▲ Pythia 8.212 default-MBR

Rivet 3.1.10,  $\geq 300k$  events

mcplots.cern.ch [arXiv:1306.3436]

CMS\_2013\_I1261026

Ratio to CMS

2

1

0.5

 $N_{ch}$ 