

7000 GeV pp

Soft QCD

Average  $p_T$  vs  $N_{ch}$  ( $p_T^{ch} > 0.25$ ,  $p_T^j > 0.25$ ,  $|\eta| < 1.9$ , leading in-jet charged particles) $\langle p_T \rangle$  [GeV]

- CMS
- - □ Herwig 7.2.1 default
- - ▲ Pythia 8.308 default
- - ◆ Sherpa 2.2.9 default

7  
6  
5  
4  
3  
2Rivet 3.1.10,  $\geq 3.2M$  events

mcplots.cern.ch [arXiv:1306.3436]

CMS\_2013\_I1261026

Ratio to CMS

2  
1  
0.52  
1  
0.5

0

50

100

 $N_{ch}$ 

0

50

100

 $N_{ch}$