

7000 GeV pp

Soft QCD

Average  $p_T$  vs  $N_{ch}$  ( $N_{ch} > 1, p_T > 0.5$  GeV)

- ATLAS
- - □ Herwig 7.0.2 default
- - ▲ Pythia 8.165 default
- - ◆ Sherpa 1.2.3 default

Rivet 3.1.0,  $\geq 6.9$ M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8918562

2

1

0.5

 $\langle p_T \rangle$  [GeV]

2.5

2

1.5

1

0.5

2

1

0.5

0

50

100

 $N_{ch}$ 

Ratio to ATLAS