

7000 GeV pp

Underlying Event

Average  $p_T$  vs  $N_{ch}$  ( $|\eta| < 2.5$ ,  $p_T > 0.5$  GeV)

- ATLAS
- Herwig 7.2.1 default
- ▲— Pythia 8.170 default
- ◆···· Sherpa 1.3.1 default

Rivet 3.1.10,  $\geq 300k$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8894728

Ratio to ATLAS

2

1

0.5

 $N_{chg}$ 