

7000 GeV pp

Underlying Event

Average Charged Particle Density(AWAY) ( $|\eta| < 2.5, p_T > 0.5$  GeV)

- ATLAS
- - □ Herwig 7.1.3 default
- - ▲ Pythia 8.180 default
- - ◆ Sherpa 2.1.1 default

Rivet 3.1.0,  $\geq 7.4$ M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8894728

Ratio to ATLAS

2

1

0.5

0.5

1

2

 $p_T$  (leading track) [GeV]

 $\langle d^2 N_{\text{chg}}/d\eta d\phi \rangle$ 

 3.5  
 3  
 2.5  
 2  
 1.5  
 1  
 0.5  
 0