

900 GeV pp

Underlying Event

Average Charged Particle Density(TWRD) ( $|\eta| < 2.5, p_T > 0.1$  GeV)

- ATLAS
- - □ Herwig 7.2.0 default
- - ▲ Pythia 8.226 default
- - ◆ Sherpa 2.1.1 default

Rivet 3.1.0,  $\geq 6M$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8894728

Ratio to ATLAS

0.5

1

2

0.5

1

2

0.5

1

1.5

2

2.5

3

3.5

 $\langle d^2 N_{\text{chg}}/d\eta d\phi \rangle$  $\langle d^2 N_{\text{chg}}/d\eta d\phi \rangle$  $\langle d^2 N_{\text{chg}}/d\eta d\phi \rangle$  $\langle d^2 N_{\text{chg}}/d\eta d\phi \rangle$  $\langle d^2 N_{\text{chg}}/d\eta d\phi \rangle$  $\langle d^2 N_{\text{chg}}/d\eta d\phi \rangle$  $p_T$  (leading track) [GeV]

2

4

6

8

10