

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 8.183 default
- - ◆ Sherpa 1.4.3 default

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

2.5

2.0

1.5

1.0

0.5

0

Rivet 3.1.0,  $\geq 6M$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8894728

Ratio to ATLAS

2

1

0.5

2

1

0.5

2

4

6

8

10

 $p_T$  (leading track) [GeV]