

900 GeV pp

Underlying Event

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

- ATLAS
- - □ Herwig 7.1.3 default
- - ▲ Pythia 8.170 default
- - ◆ Sherpa 2.1.1 default

Rivet 3.1.0,  $\geq 6.9$ M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8894728

Ratio to ATLAS

2

1

0.5

3.5

3.0

2.5

2.0

1.5

1.0

0.5

0

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

3.5

3.0

2.5

2.0

1.5

1.0

0.5

0

0

0

0

0

0

0

 $p_T$  (leading track) [GeV]

2 4 6 8 10