

7000 GeV pp

Underlying Event

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

- ATLAS
- - □ Herwig 7.2.0 default
- - ◆ Sherpa 1.4.1 default

Rivet 3.1.0,  $\geq 5.4$ M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8894728

Ratio to ATLAS

0.5 1 2

0.5 1 2

 $p_T$  (leading track) [GeV]

0 5 10 15 20

0 2

0 2

0 2

0 2

0 2

0 2

0 2

0 2

0 2

0 2

0 2

0 2

0 2

0 2

0 2

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

3 2.5 2 1.5 1 0.5 0

3 2.5 2 1.5 1 0.5 0

3 2.5 2 1.5 1 0.5 0

3 2.5 2 1.5 1 0.5 0

3 2.5 2 1.5 1 0.5 0

3 2.5 2 1.5 1 0.5 0

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3 2.5 2 1.5 1 0.5 0

3 2.5 2 1.5 1 0.5 0