

7000 GeV pp

Underlying Event

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

- ATLAS
- - □ Herwig 7.2.0 default
- - ▲ Pythia 8.176 default
- - ◆ Sherpa 2.1.1 default

5

4

3

2

1

0

0

2

1

0.5

0

0

0

0

0

0

0

0

0

0

0

0

0

0

ATLAS\_2010\_S8894728

Rivet 3.1.0,  $\geq 5.4M$  events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

0

0

0

0

0

0

0

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

Ratio to ATLAS