

7000 GeV pp

Underlying Event

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

- ATLAS
- Herwig++ 2.7.1 default
- Herwig 7.2.0 default
- ▲ Pythia 8.212 default
- ◆ Sherpa 1.4.2 default

5

4

3

2

1

0

0

1

2

3

4

5

ATLAS\_2010\_S8894728

Rivet 3.1.0,  $\geq 5.4$ M events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1

0.5

2

1

0.5

0

5

10

15

20

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