

7000 GeV pp

Underlying Event

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

- ATLAS
- ▲ Pythia 8.301 default
- ▲ Pythia 8.301 default-noFsr
- ▲ Pythia 8.301 default-noRap

5

4

3

2

1

0

0

2

1

0.5

0

5

10

15

20

 $p_T$  (leading track) [GeV]Rivet 3.1.0,  $\geq 7.1$ M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8894728

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

Ratio to ATLAS