

7000 GeV pp

Underlying Event

Transverse  $N_{\text{chg}}$  density vs.  $p_{\text{T}}^{\text{trk1}}$ ,  $\sqrt{s} = \{7 \text{ TeV}\}$ ,  $p_{\text{T}} > \{100 \text{ MeV}\}$ 

- ATLAS
- - ■ Pythia 6.426 default
- - ▲ Pythia 8.315 default

Rivet 4.1.0,  $\geq 100\text{k}$  events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS\_2010\_I879407)

Ratio to ATLAS

2

1

0.5

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

5

4

3

2

1

0

2

1

0.5

0

5

10

15

20