

7000 GeV pp

Underlying Event

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

- ATLAS
- Herwig 7.2.1 default
- ▲-- Pythia 8.315 default
- ...◆... Sherpa 1.2.2p 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

 $|\eta|$ (leading track) $\# \langle d^2 N_{\text{chg}} / d\eta d\phi \rangle$

6

5

4

3

2

1

0

0.5

0

1

2