

7000 GeV pp

Underlying Event

 N_{chg} density vs. $\Delta\phi$, $p_T^{\text{trk1}} > 3.0 \text{ GeV}$, $\sqrt{s} = \{7 \text{ TeV}\}$

- ATLAS
- △— Pythia 6.428 370
- - □ - - Pythia 6.428 391
- - . - . □ - - Pythia 6.428 default
- △— Pythia 8.240 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

 $|\phi|$ (w.r.t. leading track) [rad]