

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 atlas-csc
- -* Pythia 6.428 d6t
- -□ Pythia 6.428 default
- -▽ Pythia 6.428 dw
- -○ Pythia 6.428 p0

Rivet 4.1.0, ≥ 100k events

mcplots.cern.ch [arXiv:2401.10621]

(ATLAS_2010_I879407)

Ratio to ATLAS

2

1

0.5

 $|\phi|$ (w.r.t. leading track) [rad] $\# \langle d^2 N_{\text{chg}} / d\eta d\phi \rangle$

2.5

2

1.5

1

0.5

0

2

1

0.5

0

1

2

3