

7000 GeV pp

Underlying Event

 $N_{\text{chg}}$  density vs.  $\Delta\phi$ ,  $p_{\text{T}}^{\text{trk1}} > 5.0 \text{ GeV}$ ,  $\sqrt{s} = \{7 \text{ TeV}\}$ 

- ATLAS
- Pythia 6.426 atlas-csc
- \*-- Pythia 6.426 d6t
- Pythia 6.426 default
- ▼-- Pythia 6.426 dw
- Pythia 6.426 p0

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

mcplots.cern.ch [arXiv:2401.10621]

(ATLAS\_2010\_I879407)

Ratio to ATLAS

2

1

0.5

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