

7000 GeV pp

Underlying Event

 $N_{\text{chg}}$  density vs.  $\Delta\phi$ ,  $p_{\text{T}}^{\text{trk1}} > 1.0 \text{ GeV}$ ,  $\sqrt{s} = \{7 \text{ TeV}\}$ 

- ATLAS
- ▲ Pythia 8.230 default
- Pythia 8.230 tune-2c
- Pythia 8.230 tune-2m

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

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS\_2010\_I879407)

Ratio to ATLAS

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