

900 GeV pp

Underlying Event

 $N_{\text{chg}}$  density vs.  $\Delta\phi$ ,  $p_T^{\text{trk1}} > 1.0 \text{ GeV}$ ,  $\sqrt{s} = \{900 \text{ GeV}\}$ 

- ATLAS
- ▲ Pythia 8.240 default
- Pythia 8.240 tune-A14-CTEQL1
- - - Pythia 8.240 tune-A14-MSTW2008LO
- ⋯ Pythia 8.240 tune-A14-NNPDF2.3LO
- - △ Pythia 8.240 tune-CUETP8S1

Rivet 4.1.0,  $\geq 200\text{k}$  events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS\_2010\_I879407)

Ratio to ATLAS

2

1

0.5

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