

7000 GeV pp

Underlying Event

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

- ATLAS
- ▲ Pythia 8.240 default
- -▲ Pythia 8.240 default-CD
- -▲ Pythia 8.240 default-DL
- ...▲ Pythia 8.240 default-MBR

Rivet 4.1.0,  $\geq 100k$  events

mcplots.cern.ch [arXiv:1306.3436]

(ATLAS\_2010\_I879407)

Ratio to ATLAS

2

1

0.5

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