

900 GeV pp

Underlying Event

 $\langle p_T \rangle$  density wrt  $\phi$  of leading track ( $|\eta| < 2.5$ ,  $p_T > 0.5$  GeV,  $p_{T1} > 2$  GeV)

 $\langle d^2 p_T / d\eta d\phi \rangle$ 

1.2  
1  
0.8  
0.6  
0.4  
0.2  
0

- ATLAS
- ▲ Pythia 8.301 default
- ▼ Pythia 8.301 tune-AU2
- ◇ Pythia 8.301 tune-AU2lox
- Pythia 8.301 tune-AU2lox
- ★ Pythia 8.301 tune-AU2m

ATLAS\_2010\_S8894728

Ratio to ATLAS

1  
0.5

 $|\phi_{left} - \phi_{right}|$  (w.r.t. leading track) [rad]
Rivet 3.1.0,  $\geq 7.2M$  events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5