

7000 GeV pp

Underlying Event

 $\langle p_T \rangle$  density wrt  $\phi$  of leading track ( $|\eta| < 2.5$ ,  $p_T > 0.5$  GeV,  $p_{T1} > 1$  GeV) $\langle d^2 p_T / d\eta d\phi \rangle$ 

1.2

1

0.8

0.6

0.4

0.2

0

- ATLAS
- - □ Herwig 7.1.1 default
- - ▲ Pythia 8.180 default
- - ◆ Sherpa 1.4.1 default

ATLAS\_2010\_S8894728

Rivet 3.1.0,  $\geq 6.8$ M events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1

0.5

2

1

0.5

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