

7000 GeV pp

Underlying Event

 $\Sigma(p_T) \text{ vs } \eta^{\text{lead}} (|\eta| < 2.5, p_T > 0.1 \text{ GeV})$ $\langle d^2 \text{ sum } p_T / d\eta d\phi \rangle [\text{GeV}]$

- ATLAS
- Pythia 6.427 350
- -▲- - Pythia 6.427 351
- -▼- - Pythia 6.427 352
- -△- - Pythia 6.427 353
- -○- - Pythia 6.427 354
- -☆- - Pythia 6.427 355
- -□- - Pythia 6.427 356
- -●- - Pythia 6.427 357
- -●- - Pythia 6.427 358
- -■- - Pythia 6.427 359

Rivet 3.1.10, ≥ 200k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2010_S8894728

Ratio to ATLAS

2

1

0.5

 $|\eta|$ (leading track)