

8000 GeV pp

Soft QCD

ALFA+ATLAS hadron-level differential SD cross section vs $\Delta\eta$ $\frac{d\sigma}{d\Delta\eta}$ [mb]

- ATLAS
- Pythia 6.427 345
- Pythia 6.427 346
- △- Pythia 6.427 370
- Pythia 6.427 default
- ▲- Pythia 8.315 default

10

1

 10^{-1}

(ATLAS_2019_I1762584)

Ratio to ATLAS

2

1

0.5

0

1

2

3

4

 $\Delta\eta$

Rivet 4.1.0, ≥ 300k events

mcplots.cern.ch [arXiv:2401.10621]

2

1

0.5