8000 GeV pp

Soft QCD

ALFA+ATLAS hadron-level differential SD cross section vs Δη

$\#\frac{d\sigma}{d\Delta\eta}$ [mb]

ATLAS

Epos 1.99.crmc.1.6.0 lhc

Herwig 7.2.1 default

Pythia 6.428 370

Pythia 8.235 default

Sherpa 2.2.9 default

(ATLAS_2019_I1762584)

Rivet 4.1.0, ≥ 1M events

mcplots.cern.ch [arXiv:2401.10621]

Ratio to ATLAS

Δη