

7000 GeV pp

Soft QCD

 ρ Differential jet shape ($p_T^j > 5 \text{ GeV}$, $|h^j| < 1.9$, $10 < N_{\text{ch}} < 30$)

CMS

Herwig 7.2.1 default

Pythia 8.212 default

Rivet 3.1.10, $\geq 400k$ events
mcplots.cern.ch [arXiv:1306.3436]

CMS_2013_I1261026

Ratio to CMS

 R

0.6

0.5

0.4

0.3

0.2

0.1

0.2

0.1

0.5

0

0.1

0.2

0.3

0.4

 R

0.7

0.6

0.5

0.4

0.3

0.2

0.1

0.05

0.02

0.01

0.005

0.002

0.001

0.0005

0.0002

0.0001

0.00005

0.00002

0.00001

0.000005

0.000002

0.000001

0.0000005

0.0000002

0.0000001

0.00000005

0.00000002

0.00000001

0.000000005

0.000000002

0.000000001