

13000 GeV pp

Jets

Central jets, $1200 < p_{\text{T}}^{\text{jet}} < 1400$ [GeV]

fraction/bin

- ATLAS
- ▲ Pythia 8.240 default
- -▲ Pythia 8.240 default-CD
- -▲ Pythia 8.240 default-DL
- ...▲ Pythia 8.240 default-MBR

10

1

 10^{-1}

(ATLAS_2019_I1740909)

Ratio to ATLAS

2

1

0.5

 $p_{\text{T}}^{\text{rel}}$ (positive values only)Rivet 4.1.0, ≥ 300 k events

mcplots.cern.ch [arXiv:1306.3436]

2

1

0.5

The figure consists of two vertically stacked panels sharing a common x-axis. The x-axis is labeled $p_{\text{T}}^{\text{rel}}$ (positive values only) and ranges from 0 to 3. The top panel shows the 'fraction/bin' on a logarithmic y-axis from 10^{-1} to 10. It displays data from ATLAS (black squares) and four Pythia 8.240 models: default (blue solid line with triangles), default-CD (red dashed line with triangles), default-DL (magenta dashed line with triangles), and default-MBR (blue dotted line with triangles). All models show a decreasing trend as $p_{\text{T}}^{\text{rel}}$ increases. The bottom panel shows the 'Ratio to ATLAS' on a linear y-axis from 0.5 to 2. It displays the same four Pythia models, which fluctuate around a ratio of 1.0. A horizontal line at y=1.0 is present. Text at the top left indicates '13000 GeV pp'. Text at the top right indicates 'Jets'. A central title specifies 'Central jets, $1200 < p_{\text{T}}^{\text{jet}} < 1400$ [GeV]'. A legend in the top panel identifies the data series. A reference '(ATLAS_2019_I1740909)' is noted in the top panel. On the right side, two vertical labels provide context: 'Rivet 4.1.0, ≥ 300 k events' and 'mcplots.cern.ch [arXiv:1306.3436]'.