

7000 GeV pp

Jets

Gap fraction

Gap fraction vs Δy (LJ) ($150 < p_T < 180$)

- ATLAS
- - □ Herwig 7.2.0 default
- - ▲ Pythia 8.201 default
- - ◆ Sherpa 1.4.1 default

2.5

2.0

1.5

1.0

0.5

0

Rivet 3.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2011_S9126244

Ratio to ATLAS

2

1

0.5

2

0.5

0

2

4

6

$|\Delta y|$

The figure displays two panels sharing a common x-axis representing the rapidity difference $|\Delta y|$ from 0 to 6. The top panel shows the gap fraction, with data points and error bars for ATLAS (black squares), Herwig 7.2.0 (green dashed line with squares), Pythia 8.201 (blue solid line with triangles), and Sherpa 1.4.1 (red dotted line with diamonds). The bottom panel shows the ratio of the gap fraction to the ATLAS data, with the same data series and a shaded background representing the distribution of ratios. The shaded background is yellow for ratios between 0.8 and 1.2, and green for ratios between 0.5 and 2.0. A horizontal line is drawn at a ratio of 1.0. The text 'ATLAS_2011_S9126244' is present in the top panel, and 'Rivet 3.1.0, $\geq 100k$ events' and 'mcplots.cern.ch [arXiv:1306.3436]' are on the right side.