

7000 GeV pp

Jets

Gap fraction

Gap fraction vs Δy (FB) ($150 < p_T < 180$ ($Q_0 = \bar{p}_T$))

- ATLAS
- - □ Herwig 7.1.0 default
- - ▲ Pythia 8.301 default
- - ◆ Sherpa 1.4.3 default

2.5

2

1.5

1

0.5

0

2

1

0.5

Rivet 3.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2011_S9126244

Ratio to ATLAS

2

1

0.5

0

2

4

6

$|\Delta y|$

The figure consists of two vertically stacked panels sharing a common x-axis representing the rapidity difference $|\Delta y|$ from 0 to 6. The top panel shows the 'Gap fraction' on the y-axis (0 to 2.5), and the bottom panel shows the 'Ratio to ATLAS' on the y-axis (0.5 to 2). Four data series are plotted: ATLAS (black squares), Herwig 7.1.0 default (green dashed line with open squares), Pythia 8.301 default (blue solid line with solid triangles), and Sherpa 1.4.3 default (red dotted line with solid diamonds). Error bars are shown for all data points. The bottom panel also features a background heatmap with yellow and green regions, and a horizontal line at a ratio of 1.0. The plot is titled 'Gap fraction vs Δy (FB) ($150 < p_T < 180$ ($Q_0 = \bar{p}_T$))' and includes the ATLAS experiment identifier 'ATLAS_2011_S9126244'.