

Gap fraction

Gap fraction vs  $\Delta y$  (FB) ( $210 < p_T < 240$  ( $Q_0 = \bar{p}_T$ ))

- ATLAS
- - □ Herwig 7.2.0 default
- - ▲ Pythia 8.235 default
- - ◆ Sherpa 1.4.5 default

2

1.5

1

0.5

0

ATLAS\_2011\_S9126244

Rivet 3.1.0,  $\geq 100k$  events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1

0.5

2

1

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 8.235 (blue solid line with triangles), and Sherpa 1.4.5 (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 region (yellow and green) for  $|\Delta y| > 4.5$ . The text 'ATLAS\_2011\_S9126244' is centered in the top panel, and 'Rivet 3.1.0,  $\geq 100k$  events' and 'mcplots.cern.ch [arXiv:1306.3436]' are on the right side.