

Gap fraction

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

- ATLAS
- - □ Herwig 7.2.0 default
- - ◆ Sherpa 2.1.0 default

2

1.5

1

0.5

0

Rivet 3.1.0, ≥ 100 k 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 from ATLAS (black squares) and theoretical models Herwig 7.2.0 (green dashed line with squares) and Sherpa 2.1.0 (red dotted line with diamonds). The bottom panel shows the ratio of the gap fraction to the ATLAS data, with a shaded region indicating the spread of the data. The y-axis for the top panel ranges from 0 to 2, and for the bottom panel from 0.5 to 2. The x-axis for both panels is $|\Delta y|$.