

Gap fraction

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

- ATLAS
- Herwig 7.2.0 default
- ▲ Pythia 8.170 default
- ◆ Sherpa 2.1.0 default

2

1.5

1

0.5

0

ATLAS_2011_S9126244

Rivet 3.1.0, ≥ 100 k events

mcplots.cern.ch [arXiv:1306.3436]

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' on the y-axis, ranging from 0 to 2. The bottom panel shows the 'Ratio to ATLAS' on the y-axis, also ranging from 0.5 to 2. The legend indicates four data series: ATLAS (black squares), Herwig 7.2.0 default (green squares), Pythia 8.170 default (blue triangles), and Sherpa 2.1.0 default (red diamonds). The ATLAS data points are shown as solid black squares with vertical error bars. The Monte Carlo models are shown as lines with markers and error bars. The bottom panel also features a shaded region representing the distribution of the ratio to ATLAS, with yellow and green colors indicating different levels of deviation. The text 'ATLAS_2011_S9126244' is present in the top panel, and 'Rivet 3.1.0, ≥ 100 k events' and 'mcplots.cern.ch [arXiv:1306.3436]' are on the right side.