

Gap fraction

Gap fraction vs Δy (FB) ($70 < p_T < 90$ ($Q_0 = \bar{p}_T$))

- ATLAS
- - □ Herwig 7.2.0 default
- - ◆ Sherpa 2.2.8 default

2

1.8

1.6

1.4

1.2

1.0

0.8

0.6

0.4

0.2

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

$|\Delta y|$

The figure displays two panels. The top panel shows the gap fraction (y-axis, 0.4 to 2.0) versus $|\Delta y|$ (x-axis, 0 to 6). The bottom panel shows the ratio to ATLAS (y-axis, 0.5 to 2.0) versus $|\Delta y|$ (x-axis, 0 to 6). The top panel includes a legend and a title. The bottom panel includes a shaded region representing the ratio to ATLAS.

$ \Delta y $	ATLAS (Gap Fraction)	Herwig 7.2.0 default (Gap Fraction)	Sherpa 2.2.8 default (Gap Fraction)	Ratio to ATLAS (Herwig)	Ratio to ATLAS (Sherpa)
0.3	1.0	1.0	1.0	1.0	1.0
0.7	0.95	0.95	0.95	1.0	0.95
1.3	0.95	0.95	0.95	1.0	1.0
1.7	0.9	0.9	0.95	1.0	1.05
2.3	0.9	0.85	0.95	0.95	1.05
2.7	0.85	0.85	0.9	1.0	1.05
3.3	0.8	0.75	0.85	0.95	1.05
3.7	0.75	0.75	0.8	1.0	1.0
4.3	0.75	0.7	0.85	1.0	1.2
4.7	0.7	0.68	0.75	0.95	1.1
5.3	0.65	0.68	0.7	1.1	1.15
5.7	0.6	0.65	0.55	1.15	0.95