

7000 GeV pp

Jets

Gap fraction

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

- ATLAS
- Herwig++ 2.5.1 default
- Herwig 7.2.0 default
- ▲- Pythia 8.170 default

2

1.8

1.6

1.4

1.2

1.0

0.8

0.6

0.4

0.2

0

2

1

0.5

Rivet 3.1.0, ≥ 100 k events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2011_S9126244

Ratio to ATLAS

2

1

0.5

0

2

4

6

$|\Delta y|$

$ \Delta y $	ATLAS (Gap fraction)	Herwig++ 2.5.1 (Gap fraction)	Herwig 7.2.0 (Gap fraction)	Pythia 8.170 (Gap fraction)	Ratio to ATLAS (Herwig++)	Ratio to ATLAS (Herwig)	Ratio to ATLAS (Pythia)
0.2	0.98	0.98	0.98	0.98	1.00	1.00	1.00
0.8	0.95	0.95	0.95	0.95	1.00	1.00	1.00
1.4	0.92	0.92	0.92	0.92	1.00	1.00	1.00
1.8	0.90	0.88	0.88	0.90	0.98	0.98	1.00
2.2	0.88	0.85	0.85	0.88	0.95	0.95	1.00
2.8	0.85	0.82	0.82	0.85	0.95	0.95	1.00
3.4	0.82	0.78	0.78	0.82	0.95	0.95	1.00
3.8	0.80	0.75	0.75	0.80	0.95	0.95	1.00
4.2	0.75	0.70	0.70	0.80	0.95	0.95	1.10
4.8	0.70	0.65	0.65	0.65	0.95	0.95	0.95
5.2	0.65	0.48	0.68	0.68	0.75	1.15	1.15
5.8	0.60	0.78	0.65	0.65	1.35	1.15	1.20