

Gap fraction

Gap fraction vs Veto scale(FB) ($70 < p_T < 90$, $2 < \Delta y < 3$)

- ATLAS
- - - □ Pythia 6.425 default
- - - ▲ Pythia 8.135 default

2

1.8

1.6

1.4

1.2

1

0.8

0.6

0.4

0.2

0

Rivet 3.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS_2011_S9126244

Ratio to ATLAS

2

1

0.5

2

1

0.5

Q_0 [GeV]

Q_0 [GeV]	ATLAS Gap Fraction	Pythia 6.425 default Gap Fraction	Pythia 8.135 default Gap Fraction	Pythia 6.425 default Ratio to ATLAS	Pythia 8.135 default Ratio to ATLAS
20	0.54	0.33	0.42	0.65	0.82
25	0.61	1.00	1.00	1.75	1.75
30	0.66	1.00	1.00	1.65	1.65
35	0.70	1.00	1.00	1.55	1.55
40	0.74	1.00	1.00	1.48	1.48
45	0.77	1.00	1.00	1.43	1.43
50	0.80	1.00	1.00	1.38	1.38
55	0.82	1.00	1.00	1.34	1.34
60	0.84	1.00	1.00	1.31	1.31
65	0.86	1.00	1.00	1.28	1.28
70	0.87	1.00	1.00	1.26	1.26
75	0.88	1.00	1.00	1.24	1.24
80	0.89	1.00	1.00	1.22	1.22
85	0.90	1.00	1.00	1.20	1.20
90	0.91	1.00	1.00	1.18	1.18