

7000 GeV pp

Jets

Gap fraction

Gap fraction vs  $\Delta y$  (FB) ( $90 < p_T < 120$  ( $Q_0 = \overline{p_T}$ ))

- ATLAS
- - □ Herwig 7.2.0 default
- - ▲ Pythia 8.130.p1 default
- - ◆ Sherpa 1.2.2p default

2.5

2

1.5

1

0.5

0

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

0

2

4

6

$|\Delta y|$

$ \Delta y $	ATLAS (Gap Fraction)	Herwig 7.2.0 (Gap Fraction)	Pythia 8.130.p1 (Gap Fraction)	Sherpa 1.2.2p (Gap Fraction)	ATLAS (Ratio to ATLAS)	Herwig 7.2.0 (Ratio to ATLAS)	Pythia 8.130.p1 (Ratio to ATLAS)	Sherpa 1.2.2p (Ratio to ATLAS)
0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1.0	0.95	0.95	0.95	0.95	1.0	1.0	1.0	1.0
1.5	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0
2.0	0.85	0.85	0.85	0.85	1.0	1.0	1.0	1.0
2.5	0.8	0.8	0.8	0.9	1.0	1.0	0.95	1.1
3.0	0.8	0.8	0.85	0.85	1.0	1.0	1.0	1.0
3.5	0.75	0.75	0.6	0.8	0.85	1.0	0.8	1.05
4.0	0.75	0.75	0.75	0.85	1.0	1.0	1.0	1.1
4.5	0.7	0.7	0.55	0.7	0.85	1.0	0.85	1.1
5.0	0.6	0.45	0.9	0.55	1.5	0.8	1.5	0.9
5.5	0.55	0.2	1.0	1.0	1.95	0.4	1.95	1.95