

Gap fraction

Gap fraction vs  $\Delta y$  (LJ) ( $240 < p_T < 270$ )

- ATLAS
- - □ Herwig 7.2.0 default
- - ▲ Pythia 8.176 default
- - ◆ Sherpa 1.4.2 default

2

1.5

1

0.5

0

ATLAS\_2011\_S9126244

Rivet 3.1.0,  $\geq 100k$  events

mcplots.cern.ch [arXiv:1306.3436]

Ratio to ATLAS

2

1

0.5

2

1

0.5

0

2

4

6

$|\Delta y|$

$ \Delta y $	ATLAS Gap Fraction	Herwig 7.2.0 Gap Fraction	Pythia 8.176 Gap Fraction	Sherpa 1.4.2 Gap Fraction	Herwig 7.2.0 Ratio to ATLAS	Pythia 8.176 Ratio to ATLAS
0.3	0.95	0.95	0.95	0.95	1.0	1.0
0.8	0.8	0.8	0.8	0.8	1.0	1.0
1.3	0.65	0.65	0.65	0.6	1.0	1.0
1.8	0.55	0.55	0.5	0.5	1.0	0.9
2.3	0.45	0.45	0.45	0.45	1.0	1.0
2.8	0.38	0.38	0.38	0.3	1.0	0.95
3.3	0.32	0.32	0.25	0.25	1.0	0.75
3.8	0.3	0.3	0.35	0.4	0.9	1.3
4.3	0.35	0.2	0.3	0.35	0.55	0.9
4.8	0.35	0.35	0.4	0.35	1.5	1.2