

Gap fraction

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

- ATLAS
- - □ Herwig 7.0.1 default
- - ▲ Pythia 8.165 default
- - ◆ Sherpa 1.4.0 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 7.0.1 Gap Fraction	Pythia 8.165 Gap Fraction	Sherpa 1.4.0 Gap Fraction	Ratio to ATLAS (Yellow)	Ratio to ATLAS (Green)
0.2	0.95	0.95	0.95	0.95	1.0	1.0
0.7	0.8	0.85	0.8	0.8	1.0	1.0
1.2	0.65	0.65	0.65	0.6	1.0	1.0
1.7	0.55	0.5	0.55	0.5	1.0	1.0
2.2	0.45	0.45	0.45	0.4	1.0	1.0
2.7	0.35	0.35	0.35	0.35	1.0	1.0
3.2	0.35	0.3	0.4	0.2	1.0	1.0
3.7	0.3	0.3	0.35	0.35	0.8	1.0
4.2	0.35	0.2	0.25	0.2	0.7	1.0
4.7	0.35	0.2	0.2	0.7	0.7	1.5
5.2	0.35	0.2	0.2	0.7	0.7	1.9
5.7	0.0	-	-	-	-	-