

Gap fraction

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

- ATLAS
- Herwig++ 2.6.1a default
- Herwig 7.2.0 default
- ▲- Pythia 8.301 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++ 2.6.1a Gap Fraction	Herwig 7.2.0 Gap Fraction	Pythia 8.301 Gap Fraction	Ratio to ATLAS (ATLAS)	Ratio to ATLAS (Herwig++)	Ratio to ATLAS (Herwig 7.2.0)	Ratio to ATLAS (Pythia 8.301)
0.3	0.95	0.95	0.95	0.95	1.0	1.0	1.0	1.0
0.7	0.8	0.85	0.8	0.8	1.0	1.1	1.0	1.0
1.3	0.7	0.7	0.7	0.7	1.0	1.0	1.0	1.0
1.7	0.55	0.55	0.55	0.5	1.0	1.0	1.0	0.9
2.2	0.45	0.5	0.45	0.4	1.0	1.1	1.0	0.9
2.7	0.35	0.35	0.35	0.35	1.0	0.9	0.9	0.9
3.2	0.35	0.35	0.35	0.35	1.0	1.1	0.9	1.0
3.7	0.3	0.2	0.3	0.5	1.0	0.6	0.9	1.7
4.2	0.35	-	0.2	0.6	1.0	-	0.5	1.8
4.7	0.35	-	-	-	1.0	-	-	-
5.7	0.0	-	-	-	1.0	-	-	-