

Gap fraction

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

- ATLAS
- Herwig++ 2.5.1 default
- Herwig 7.2.0 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

0.5

0 2 4 6

$|\Delta y|$

$|\Delta y|$

$ \Delta y $ bin	ATLAS Gap Fraction	Herwig++ 2.5.1 Ratio	Herwig 7.2.0 Ratio
0.25 - 0.5	~0.95	~1.05	~1.0
0.5 - 0.75	~0.75	~1.15	~1.0
0.75 - 1.0	~0.65	~1.1	~1.05
1.0 - 1.25	~0.5	~0.95	~1.0
1.25 - 1.5	~0.4	~1.0	~0.9
1.5 - 1.75	~0.35	~1.1	~0.8
1.75 - 2.0	~0.3	~1.05	~0.7
2.0 - 2.25	~0.28	~1.0	~0.7
2.25 - 2.5	~0.25	~1.1	~0.7
2.5 - 2.75	~0.25	~1.4	~0.7
2.75 - 3.0	~0.2	~0.75	~0.5
3.0 - 3.25	~0.18	~1.4	~0.7
3.25 - 3.5	~0.15	~1.4	~0.7
3.5 - 3.75	~0.15	~1.4	~0.7
3.75 - 4.0	~0.15	~1.4	~0.7
4.0 - 4.25	~0.15	~1.4	~0.7
4.25 - 4.5	~0.15	~1.4	~0.7
4.5 - 4.75	~0.15	~1.4	~0.7
4.75 - 5.0	~0.15	~1.4	~0.7
5.0 - 5.25	~0.15	~1.4	~0.7
5.25 - 5.5	~0.15	~1.4	~0.7
5.5 - 5.75	~0.15	~1.4	~0.7
5.75 - 6.0	~0.15	~1.4	~0.7