

Gap fraction

Gap fraction vs  $\Delta y$  (FB) ( $150 < p_T < 180$  ( $Q_0 = \bar{p}_T$ ))

- ATLAS
- - ■ Pythia 6.423 default
- - \* Pythia 6.423 pro-q2o

2.5

2

1.5

1

0.5

0

Rivet 3.1.0,  $\geq 100k$  events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2011\_S9126244

Ratio to ATLAS

2

1

0.5

2

1

0.5

0

2

4

6  
 $|\Delta y|$

0

$ \Delta y $	ATLAS Gap Fraction	Pythia 6.423 default Gap Fraction	Pythia 6.423 pro-q2o Gap Fraction
0.3	1.0	1.0	1.0
0.7	0.95	0.95	0.95
1.1	0.95	0.95	0.95
1.5	0.9	0.95	0.9
1.9	0.9	0.9	0.9
2.3	0.9	0.85	0.95
2.7	0.85	0.9	0.95
3.1	0.8	0.9	0.9
3.5	0.75	0.8	0.8
3.9	0.75	0.75	0.8
4.3	0.7	0.75	0.45
4.7	0.6	0.45	0.8
5.1	0.55	0.95	0.2
5.5	0.35	1.0	0.2