

Gap fraction

Gap fraction vs Δy (LJ) ($240 < p_T < 270$)

- ATLAS
- - □ Herwig 7.0.1 default
- - ▲ Pythia 8.170 default
- - ◆ Sherpa 2.1.1 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 Ratio | Pythia 8.170 Ratio | Sherpa 2.1.1 Ratio |
|--------------|--------------------|--------------------|--------------------|--------------------|
| 0.3 | 0.95 | 1.05 | 1.05 | 1.05 |
| 0.7 | 0.80 | 1.15 | 1.10 | 1.00 |
| 1.3 | 0.65 | 1.05 | 1.00 | 0.90 |
| 1.7 | 0.55 | 0.95 | 1.00 | 0.90 |
| 2.3 | 0.45 | 1.05 | 0.90 | 0.90 |
| 2.7 | 0.35 | 0.95 | 0.80 | 0.90 |
| 3.3 | 0.35 | 0.85 | 1.20 | 1.00 |
| 3.7 | 0.30 | 0.90 | 1.05 | 0.90 |
| 4.3 | 0.30 | 0.60 | 0.10 | 0.60 |
| 4.7 | 0.35 | 0.75 | - | 0.75 |
| 5.7 | 0.00 | - | - | - |