

Average  $p_T$  vs  $N_{ch}$  ( $N_{ch} > 0$ ,  $|\eta| < 2.5$ ,  $p_T > 0.5$  GeV)

- ATLAS
- - □ Herwig 7.1.0 default
- - ▲ Pythia 8.170 default
- - ◆ Sherpa 2.2.8 default

Rivet 3.1.0,  $\geq 7.1$ M events

mcplots.cern.ch [arXiv:1306.3436]

ATLAS\_2010\_S8591806

Ratio to ATLAS

2

2

2

2

2

2

2

2

2

0.5

1

1

1

1

1

1

1

1

1

0

20

40

 $N_{ch}$ 

60

0.5

1

2

4

6

8

10

12

14

16

18

20

22

24

26

28

30

32

34

36

38

40

42

44

46

48

50

52

54

56

58

60

62

64

66

68

70

72

74

76

78

80

82

84

86

88

90

0.2

0.4

0.6

0.8

1.0

1.2

1.4

1.6

1.8

2.0

2.2

2.4

2.6

2.8

3.0

3.2

3.4

3.6

3.8

4.0

4.2

4.4

4.6

4.8

5.0

5.2

5.4

5.6

5.8

6.0

6.2

6.4

6.6

6.8

7.0

7.2

7.4

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8.0

8.2

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8.6

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9.0

9.2

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10.0

10.2

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10.8

11.0

11.2

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29.0

29.2

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29.6

29.8

30.0

30.2

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30.6

30.8

31.0

31.2

31.4

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32.0

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40.0

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41.0

41.2

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42.0

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46.0

46.2

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47.0

47.2

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48.0

48.2

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49.0

49.2

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50.0

50.2

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51.0

51.2

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