

900 GeV pp

Soft QCD

Cross section($M_x < 200 \text{ GeV}^2$)

- Pythia 8.201 default
- Pythia 8.201 default-CD

Rivet 4.1.0, $\geq 100k$ events

mcplots.cern.ch [arXiv:1306.3436]

(ALICE_2012_I1181770)

Ratio to Pythia 8.201 default

0.5

1

2

0.1

0.15

0.2

0.25

0.3

0.5

1

2

2

0.1

0.2

0.3

0.4

0.5

0.6

0.7

0.8

0.9

1.0

1.1

1.2

1.3

1.4

1.5

1.6

1.7

1.8

1.9

2.0

2.1

2.2

2.3

2.4

2.5

2.6

2.7

2.8

2.9

3.0

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4.0

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5.0

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6.0

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6.9

7.0

7.1

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7.9

8.0

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8.9

9.0

9.1

9.2

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9.8

9.9

10.0

10.1

10.2

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10.8

10.9

11.0

11.1

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11.9

12.0

12.1

12.2

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13.0

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16.0

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17.0

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17.9

18.0

18.1

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18.9

19.0

19.1

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19.9

20.0

20.1

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21.0

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22.0

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28.0

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29.0

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30.0

30.1

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31.0

31.1

31.2

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31.9

32.0

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33.6

33.7

33.8

33.9

34.0

34.1

34.2

34.3

34.4

34.5

34.6

34.7