

**CMS** $3.5 < p_T < 40$  GeV/c $1.6 < |y| < 2.4$ 

Cent. 0-90%

● Prompt  $\psi(2S)$ ■ Non Prompt  $\psi(2S)$  $R_{AA}$ 1.4  
1.2  
1  
0.8  
0.6  
0.4  
0.2  
0

0

50

100

150

 $\langle N_{Part} \rangle$ 

200

250

300

350

400

0.6

0.4

0.2

0

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

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6.6

6.8

7.0

7.2

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8.0

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9.0

9.2

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9.8

10.0

10.2

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10.6

10.8

11.0

11.2

11.4

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11.8

12.0

12.2

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67.0

67.2

67.4

67.6

67.8

68.0

68.2

68.4

68.6

68.8

69.0

69.2

69.4

69.6

69.8

70.0

70.2

70