

Soft QCD

Integrated cross sections for prompt $c\bar{c}$ production ($|y| < 0.5$).

Legend:

- ALICE
- Pythia 8.235 default

Top Panel: $\frac{d\sigma}{dy} [\mu\text{b}]$ vs $E = 7 \text{ TeV}$. The y-axis ranges from 400 to 2000. The x-axis ranges from 6999.5 to 7000.5. The ALICE data point is at $\approx 960 \mu\text{b}$. The Pythia 8.235 default prediction is at $\approx 960 \mu\text{b}$. The text "(ALICE_2017_I1511870)" is present.

Bottom Panel: Ratio to ALICE vs $E = 7 \text{ TeV}$. The y-axis ranges from 0.5 to 2. The x-axis ranges from 6999.5 to 7000.5. The ratio is 1.0. Shaded regions indicate systematic uncertainties.

Right Panel: $\sqrt{s_{NN}}$ [TeV] vs $E = 7 \text{ TeV}$. The y-axis ranges from 4.1.0 to 100k events. The x-axis ranges from 6999.5 to 7000.5. The text "mcplots.cern.ch [arXiv:1306.3436]" is present.

—▲— Pythia 8.235 default

(ALICE_2017_I1511870)

mcplots.cern.ch [arXiv:1306.3436] Rivet 4.1.0, 100k events

2

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[illegible]

0.

05

$E = 7 \text{ TeV}$