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Type: **Parallel Talk**

## Beyond nPDF effects: prompt $J/\psi$ and $\psi(2S)$ production in pPb collisions with CMS detector

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A multi-dimensional analysis of prompt charmonia in pp and pPb collisions at 5.02 TeV with the CMS detector is presented. The pPb differential cross-sections of prompt  $J/\psi$  are shown in a wide kinematic region, for transverse momentum  $p_T$  spanning from 2 to 30 GeV/c and a rapidity interval between -2.87 to 1.93 in the center of mass of the collision. The ratio of yields in forward (p-going beam) and backward (Pb-going beam) directions,  $R_{FB}$ , is measured, to quantify the asymmetry of cross-sections as a function of  $p_T$ , rapidity, and event activity. A significant asymmetry is observed for  $R_{FB}$ .

### Content type

Experiment

### Collaboration

CMS

### Centralised submission by Collaboration

Presenter name already specified

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