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J/ψ in pPb collisions with CMS

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Charmonia in nucleus-nucleus (A-A) collisions are an important probe to study for understanding the deconfinement in heavy ion collisions at LHC energies. The measurement in proton-lead (p-A) collisions of prompt and non-prompt J/ψ production enables us to investigate nuclear matter effects and therefore, provides a new input to examine the hot-medium effects in A-A collisions, which are still not fully understood. Using CMS, the transverse momentum and rapidity differential cross-sections, and forward to backward ratios of prompt and non-prompt J/ψ in pPb collisions at center of mass energy per nucleon pair = 5.02 TeV will be presented. The dependence of forward to backward ratios with respect to the event characteristics will also be shown.

On behalf of collaboration:

CMS

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