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J/psi production at mid-rapidity in p–Pb collisions with the ALICE detector

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Relativistic heavy-ion collisions are the unique tool to study the properties of the deconfined state of quarks and gluons, Quark-Gluon Plasma (QGP). Dissociation of J/ψ is thought as one of the strong evidences of QGP formation. At LHC energy, regeneration of J/ψ from thermalized charm quarks is also expected to be pronounced.
In order to discuss the QGP effects in relativistic heavy-ion collisions, the understanding of cold nuclear matter effects such as gluon shadowing, gluon saturation, and nuclear absorption is crucial.
Proton–nucleus collisions are suited for the study of the cold nuclear matter effects.
Furthermore, the charged particle multiplicity dependence of J/ψ production provides an insight on the underlying physics such as Multi-Parton Interactions (MPI).
p–Pb collisions were recorded in 2016 with the ALICE detector at the LHC. In this poster, we will show the status of J/ψ analysis in p–Pb collisions which includes the centrality dependence of the nuclear modification factor (R_{pPb}, Q_{pPb}) and the charged particle multiplicity dependence of J/ψ yield.

Content type

Experiment

Collaboration

ALICE

Centralised submission by Collaboration

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Primary author: HAYASHI, Shinichi (University of Tokyo (JP))

Presenter: HAYASHI, Shinichi (University of Tokyo (JP))

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