

Contribution submission to the conference SMuK 2021

Measurements of J/ψ production in p–Pb collisions at $\sqrt{s_{\text{NN}}} = 8.16$ TeV with ALICE — ●MINJUNG KIM for the ALICE-Collaboration — Physikalisches Institut, Universität Heidelberg, Heidelberg, Germany

Measurements of J/ψ production in p–Pb collisions are a valuable probe to study cold–nuclear–matter effects as well as possible final state mechanisms, which can modify its production with respect to the one in pp collisions.

In ALICE (A Large Ion Collider Experiment), J/ψ production is measured at midrapidity via the dielectron decay channel relying on the electron identification capability provided by the Time Projection Chamber (TPC). Excellent track pointing resolution provided by the Inner Tracking System (ITS) allows the contribution of J/ψ from a weak decays of beauty hadrons (non-prompt J/ψ) statistically separated based on the long life time of beauty hadrons.

In this presentation, we will show measurements of inclusive and non-prompt J/ψ production in p–Pb collisions at $\sqrt{s_{\text{NN}}} = 8.16$ TeV from a high- p_{T} electron enriched data sample collected using the trigger capabilities of the Transition Radiation Detector (TRD).

Part: HK
Type: Vortrag;Talk
Topic: Schwerionenkollisionen und QCD Phasen
Email: mjkim@physi.uni-heidelberg.de