

J/psi production at forward rapidity in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV, measured with the ALICE detector

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Heavy quarkonium states are expected to provide essential information on the properties of the high-density strongly-interacting system formed in the early stages of high-energy heavy-ion collisions. Such probes are especially promising at LHC energies, where heavy quarks are copiously produced.

ALICE is the experiment at the LHC mainly dedicated to the study of nucleus-nucleus collisions. At forward rapidity ($2.5 < y < 4$), the production of heavy quarkonium states is measured down to $p_T = 0$ via their $\mu^+\mu^-$ decay channels in the Forward Muon Spectrometer. After a short description of the apparatus, the analysis of the inclusive J/psi production in the first Pb-Pb data collected in the fall 2010 at a center of mass energy of $\sqrt{s_{NN}} = 2.76$ TeV will be presented. Preliminary results on the nuclear modification factor (R_{AA}) and the central to peripheral nuclear modification factor (R_{CP}) will then be discussed.

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