

5th International workshop on heavy quark production in heavy-ion collisions



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Coherent J/ψ photoproduction in ultra-peripheral Pb-Pb collisions at ALICE

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The ALICE experiment at the CERN Large Hadron Collider allows the study of vector meson production in ultra-peripheral heavy-ion collisions (UPC). Due to the strong electromagnetic fields gamma-gamma and gamma-nucleus processes can be studied.

We report the first results obtained at ALICE on the coherent J/ψ photo-production cross section, a process sensitive to the gluon distribution of the nuclei, in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV and its rapidity dependence measured at both forward rapidities ($\mu^+\mu^-$ channel) and central rapidities (e^+e^- and $\mu^+\mu^-$ channels)

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