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ALICE results on vector meson photonuclear production in Pb-Pb collisions

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The strong electromagnetic fields generated by ultra-relativistic heavy ions offer the possibility to study photoproduction processes at the LHC. In so called ultra-peripheral collisions (UPC), when the impact parameter of the incoming hadrons is larger than the sum of their radii, hadronic processes are strongly suppressed and only electromagnetic interactions remain.

ALICE has measured the coherent photo-nuclear production of ρ^0 , J/ψ and $\psi(2S)$ vector mesons in ultra-peripheral collisions of lead nuclei. These processes provide information on the gluon structure of the nuclear target at low Bjorken- x . The talk will cover the results from LHC Run1 data, as well as discuss the current status and prospects for analyses with LHC Run2 data.

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Classifica Sessioni: Diffraction in nuclear collisions (I)

Classificazione della track: Diffraction in nuclear physics