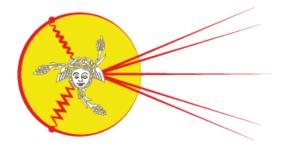
Diffraction 2016



ID contributo: 119 Tipo: non specificato

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

mercoledì 7 settembre 2016 16:25 (25 minuti)

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 electromagenetic interactions remain.

ALICE has measured the coherent photo-nuclear production of ρ^0 , J/ ψ and $\psi(2S)$ vector mesons in ultraperipheral 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.

Autore principale: CONTRERAS, Guillermo (FJFI CVUT Prague)

Relatore: CONTRERAS, Guillermo (FJFI CVUT Prague)

Classifica Sessioni: Diffraction in nuclear collisions (I)

Classificazione della track: Diffraction in nuclear physics