

Photoproduction of J/ψ with ALICE

The exclusive photoproduction of a J/ψ allows us to examine the transverse distribution of matter inside proton or nucleus targets. Moreover, this photoproduction is a great tool to explore the phenomenon of saturation and nuclear shadowing in the region of low x . From QED calculations and models describing the QCD part of the interaction it is possible to calculate the cross section for a given photoproduction process. By analysing ultra-peripheral collisions (Pb-Pb or p-Pb) with ALICE at the LHC we can measure experimental values for photoproduction cross sections and compare them with theoretical predictions, thus putting constraints on theoretical models.

Primary author: HERMAN, Tomáš (CTU FNSPE)

Presenter: HERMAN, Tomáš (CTU FNSPE)

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