

Photoproduction of J/ψ in ultra-peripheral collisions

Thursday, 16 January 2020 09:00 (20 minutes)

The aim of this presentation is to introduce the J/ψ photoproduction in ultra-peripheral collisions. Measurements of the cross section for the J/ψ photoproduction have the potential to help us understand the structure of nuclei and hadrons or give a signature of gluon saturation. An energy-dependent hot-spot model, which can model the energy dependence of this cross section in case of both p-A and A-A collisions, is presented. The motivation for further measurements of the cross section for the incoherent J/ψ photoproduction clearly emerges from the existing results of the model. Besides, some historical remarks regarding the measurements of the structure of a proton are given, namely the description of deeply inelastic scattering and the parton model.

Primary author: GRUND, David

Presenter: GRUND, David

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