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Energy dependence of exclusive J/Psi photoproduction in p-Pb interactions at ALICE

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The electromagnetic field of a fast moving lead ion at the LHC is an intense source of quasi-real photons. This makes it possible to study J/Psi exclusive photoproduction off protons in p-Pb collisions at the LHC. This process is sensitive to the gluon content of the target. Measuring the scattering angle of the produced vector meson one can compute the centre-of-mass energy (W) of the photon-proton scattering.

Using Run1 data, ALICE has measured the exclusive J/Psi photoproduction cross section in a wide range of scattering angles. In this contribution, we present for the first time measurements of the cross section using the central-barrel detectors of the ALICE, as well as cross sections for a novel topology where one of the muons from the decay of the J/Psi is detected with the forward-muon spectrometer and the other muon with the central-barrel detectors. This allow us to study the evolution of the cross section with energy in a continuous way in the range $20 \text{ GeV} < W < 700 \text{ GeV}$. The measurements are compared to the newest models of this process.

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