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Measurement of the J/Psi production cross section in ultraperipheral Pb-Pb collisions

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The results of the study of ultraperipheral (gamma-gamma and gamma-Pomeron) interactions are presented. The analysis was performed with the data recorded by the ATLAS experiment during LHC Pb-Pb run in year 2011. The data, taken at the beam energy of 2.75 TeV per nucleon, correspond to an integrated luminosity of 141/microbarn. Muon pairs, produced in pure electromagnetic two-photon interactions and in reactions of J/Psi photoproduction, were analyzed and the cross section of $AA \rightarrow AA + \mu^+\mu^-$ reaction was measured. Another measurement of the J/Psi photoproduction cross section was carried out with the events accompanied by mutual neutron emission and triggered by Zero Degree Calorimeter.

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