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Results on Ultra-Peripheral Collisions of Lead Ions with ATLAS at LHC

Preliminary results of the study of ultraperipheral ($\gamma\gamma$ and γp) interactions are presented. The analysis was performed with the data recorded by the ATLAS experiment during the LHC Pb-Pb run in 2011. The data, taken at the beam energy of 2.76 TeV per nucleon, correspond to an integrated luminosity of 152 μb^{-1} . Muon pairs, produced in pure electromagnetic two-photon interactions and in reactions of J/ψ photoproduction, were analysed. A preliminary cross section for the $AA \rightarrow AA + \mu\mu$ reaction has been determined from these studies.

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