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Observation of $\gamma\gamma \rightarrow \tau\tau$ production in PbPb collisions with the CMS experiment

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Ultrapерipheral lead-lead collisions produce very large photon fluxes that fundamental quantum-mechanical processes can be observed and well studied. The first measurement of τ lepton pair in ultraperipheral PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with data collected by CMS during the LHC Run 2 will be presented. The study paves the way for the determination of the anomalous magnetic moment of the τ lepton, currently poorly constrained.

Session

Heavy Ions and QCD

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