

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

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

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