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Type: **Oral presentation**

Observation of $\gamma + \gamma \rightarrow \tau + \tau$ in Pb+Pb collisions and constraints on the τ -lepton $g-2$ with the ATLAS detector

Thursday, 7 April 2022 12:10 (20 minutes)

This talk reports the observation of τ -lepton pair production in ultraperipheral lead-lead collisions and a measurement of for the τ -lepton anomalous magnetic moment, a_τ . The dataset corresponds to an integrated luminosity of 1.44/nb of Pb+Pb collisions at 5.02 TeV recorded by the ATLAS experiment in 2018.

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