



Contribution ID: 937

Type: **Oral presentation**

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

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

This talk reports the observation of  $\tau$ -lepton pair production in ultraperipheral lead-lead collisions and a measurement of for the  $\tau$ -lepton anomalous magnetic moment,  $a_\tau$ . 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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**Session Classification:** Parallel Session T09: Ultra-peripheral collisions

**Track Classification:** Ultra-peripheral collisions