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Measurement of the tau-lepton pair production from photons and tau $g-2$

Wednesday, December 6, 2023 2:50 PM (20 minutes)

Relativistic heavy-ion beams at the LHC are accompanied by a large flux of equivalent photons, leading to photon-induced processes. In this talk, the observation of tau-lepton pair production in ultraperipheral lead-lead collisions recorded by the ATLAS experiment at the LHC in 2018 is reported. The measurement is used to constrain the tau lepton's anomalous magnetic dipole moment.

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