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Measuring tau $g-2$ using ATLAS Pb+Pb collisions

Relativistic heavy-ion beams at the LHC are accompanied by a large flux of equivalent photons, leading to photon-induced processes. Measurements of photon-induced production of tau lepton pairs can be used to constrain the tau lepton's anomalous magnetic dipole moment ($g-2$). This work presents a recent ATLAS measurement using muonic decays of tau leptons in association with electrons and tracks which provides one of the most stringent limits available to date.

Collaboration / Activity

ATLAS

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