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Constraints on axion dark matter from corrections to $g-2$ of the electron

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We employ finite temperature QFT techniques to calculate corrections to $g-2$ of the electron in the presence of axion-like particles as a local dark matter background. The precise measurements of $g-2$ allows us to put competitive constraints on the axion-electron coupling.

Primary authors: ARZA, Ariel (Tsung-Dao Lee Institute, Shanghai Jiao Tong University); Prof. EVANS, Jason (Tsung-Dao Lee Institute, Shanghai Jiao Tong University)

Presenter: ARZA, Ariel (Tsung-Dao Lee Institute, Shanghai Jiao Tong University)

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