Corrections on the electron g-2 from ultra light dark matter backgrounds

Wednesday, 10 July 2024 17:10 (20 minutes)

In this talk I will show how an ultra light dark matter background affects the electron g-2 value. The effect comes from an enhancement in the triangle diagram due to the high occupancy number of a boson field with a very low mass. The results are immediately used to put strong constraints on axion-electron couplings and dark photon kinetic mixing parameters, for masses below 10^{-15} eV.

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Track Classification: Poster session: Axion/Sterile