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Particle and halo model uncertainties in direct dark matter detection

Monday, 11 November 2019 15:45 (30 minutes)

After briefly reviewing the WIMP status as dark matter (DM) candidate, I will mention how the impact of the neutrino floor on the direct detection (DD) reach depends on the type of WIMP-nucleus interaction and mass, and then how a DD signal would translate into properties of the DM local velocity distribution, allowing to compare different DD data sets through these predictions (in a “halo-independent” analysis complementary to the usual halo-dependent method).

Affiliation

UCLA

Primary author: Prof. GELMINI, Graciela (UCLA)

Presenter: Prof. GELMINI, Graciela (UCLA)

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