

## Phenomenology 2025 Symposium



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# New Constraints of ALPs from EDM of Leptons and Nucleons with Background

*Tuesday 20 May 2025 14:45 (15 minutes)*

We consider new contributions of lepton and nucleon EDM, which are given by background effects of ultralight bosons. We calculate EDM contributions up to two loop diagram for CP-violating ALPs interactions with photon, lepton and nucleon. These new contributions will give new constraints on couplings, and constraints would be stronger if ALP mass is smaller than  $10^{-11}$  eV.

## Mini Symposia (Invited Talks Only)

## Plenary (Invited talks only)

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