

FLASY 2024: the 10th Workshop on Flavor Symmetries and Consequences in Accelerators and Cosmology



Contribution ID: 30

Type: **not specified**

Searching for light accelerated dark matter

Tuesday 25 June 2024 11:15 (45 minutes)

Low mass accelerated dark matter (DM) is very well motivated and has been a subject of much attention in the literature. These fast-moving particles can gain enough kinetic energy to surpass the energy thresholds of some Large volume terrestrial detectors. For instance, fast-moving DM can deposit sizable amounts of energy at both large volume neutrino detectors and dark matter direct detection experiments. In this talk, I will focus on searches for both multi-component “boosted” DM and cosmic-ray accelerated DM. I will present recent and on-going work which explores these accelerate DM scenarios using a variety of probes.

Presenter: MOHLABENG, Gopolang (University of California, Irvine)

Session Classification: Flavor and Astrophysics