



Contribution ID: 5

Type: **not specified**

Search for axion dark matter in the laboratory and in the cosmos

Tuesday 5 December 2023 17:15 (45 minutes)

I would like to present a new experimental proposal, called LACME, to search for axion dark matter in the laboratory. If axions or axion-like particles are the main component of dark matter, they will modify the transport property of electrons and also the atomic spectra, which will give a new way of detecting axions or axion-like particles. Finally I will discuss a topological soliton made of axions and discuss its observational consequences in the cosmos.

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Session Classification: Afternoon Session 2