



Contribution ID: 50

Type: **not specified**

Results from ADMX: Searching for Axion Dark Matter in the 3.3-4.2 μeV Mass Range

Tuesday, 4 July 2023 14:15 (20 minutes)

Axions are a well-motivated theoretical particle that solve the Strong CP problem of quantum chromodynamics. The properties of the axion make it a compelling dark matter candidate. The Axion Dark Matter eXperiment (ADMX) searches for axion dark matter within the local Milky Way halo using an axion haloscope. This presentation will discuss results from the most recent run of ADMX which searched for axions between 3.3-4.3 μeV . In addition, we will also provide updates on future searches with ADMX that will search for axions at higher frequencies using a multi-cavity array.

Primary author: DU, Nick (Lawrence Livermore National Laboratory)

Presenter: DU, Nick (Lawrence Livermore National Laboratory)

Session Classification: Tuesday Session 3