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

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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 halo-scope. 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.

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