

## Recent Results from the Axion Dark Matter Experiment (ADMX)

*Tuesday, 29 May 2018 16:30 (20 minutes)*

The nature of dark matter is one of the great mysteries of modern physics today and is likely new particles beyond the Standard Model. The Axion, originally conceived as a solution to the strong-CP problem in nuclear physics, is one well-motivated candidate. The Axion Dark Matter Experiment (ADMX) was started at LLNL in the mid-1990s and ran until 2010 before it was moved to the U. of Washington where it is now a DOE Gen 2 project. ADMX uses a large microwave cavity immersed in a strong static magnetic field to resonantly convert dark matter axions to detectable photons. Recently ADMX has completed its first data run with unprecedented sensitivity in the classical QCD-axion mass range of several  $\mu\text{eV}$ . In this talk I will describe the history of axion dark matter searches, describe the recent ADMX results, and give a survey of the R&D efforts currently underway to explore the entire axion dark matter mass window.

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### **Collaboration name**

ADMX collaboration

### **Funding source**

DOE Office of Science HEP Cosmic Frontier

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**Session Classification:** Dark Matter

**Track Classification:** DM