



# PHYSICS AND ASTRONOMY COLLOQUIUM

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## **"The ADMX Search for Dark Matter Axions"**

### Abstract

The QCD axion is a compelling dark matter candidate. The Axion Dark Matter eXperiment (ADMX) is a cavity haloscope search for dark matter axions, with the goal of finding or excluding axions in the most plausible range to make up most or all of dark matter. The most recent round of ADMX data-taking marks the first time an axion search has operated with sensitivity to the well-motivated DFSZ-coupled axion. I will discuss the recent results and plans for expand the mass reach of ADMX in future operation.

Wednesday, October 18, 2017

2:30 p.m.

Elliott Building

Room 167