

Axion Dark Matter eXperiment (ADMX) Data Quality Progress Report

3Q FY18

This project continued from its 2Q beginning in February, 2018. Leanne Duffy is the LANL PI for ADMX, simply referred to as the PI in this short report.

The PI participated in the ADMX Spring collaboration meeting, held at Fermilab, April 25-27, 2018.

An ADMX team injects signals into the data stream at intervals to ensure the ADMX signal detection algorithm is working. These signals aim to replicate an actual axion signal. The PI demonstrated that it is possible to discriminate a true axion signal from an injected signal using the high-resolution time series data. The PI also began working with a student from the University of Florida, Ram Shadashshivajois, on the high-resolution data analysis.

The PI joined the ADMX review change committee.