

Abstract Submitted  
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**Operational status for ADMX-G2 Run 1C**<sup>1</sup> TATSUMI NITTA, University of Washington, ADMX COLLABORATION — The axion is a hypothetical particle that solves the strong CP problem and is a leading dark matter candidate. The Axion Dark Matter Experiment (ADMX) is an experiment that searches for axions as a dark matter. A strong magnetic field converts axions into photons, and a resonant cavity and low noise amplifiers represented by Josephson Parametric Amplifier (JPA) amplify photon signals. At the previous run periods, run 1A and run 1B achieved sensitivity to search for the full range of axion-photon couplings predicted by promising benchmark models and exclude axions around 2.66-3.31 micro-eV. This sensitivity relies on the system noise temperature calculated by the SNRI method for JPA and the Y-factor method for warmer electronics. The ongoing run period of run 1C is searching for axions at a higher mass range. This talk reports the detail of operational status and the latest results of the system noise temperature measurement.

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