

Abstract Submitted
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ADMX Future Plans: 10 μeV and Beyond¹ ANDREW SONNENSCHNEIN, Fermilab, ADMX COLLABORATION — The Axion Dark Matter Experiment (ADMX) is a DOE Generation 2 dark matter project and will cover masses up to 9 μeV (2 GHz in microwave frequency) with sensitivity to most QCD axion models. Work has begun to extend sensitivity to higher axion masses by developing a number of new technologies, including arrays of high-Q superconducting microwave resonators, high field magnets and lower noise amplifiers, potentially operating at noise levels below the Standard Quantum Limit. In this talk we will review the ADMX technology development roadmap and plans for next generation experiments.

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