

Abstract Submitted
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Status and Overview of The Axion Dark Matter Experiment (ADMX)¹ GRAY RYBKA, University of Washington, ADMX COLLABORATION, ADMX-HF COLLABORATION — The axion is a hypothetical particle that could both explain why the strong force is CP invariant and also account for the cold dark matter in the universe. ADMX is a direct search for dark-matter axions by their resonant conversion into photons in a microwave cavity permeated by a magnetic field, and amplified by quantum-limited amplifiers. An upgrade that will enable ADMX to be sensitive to axion models even with the most pessimistic axion-photon couplings is nearly complete. An overview of ADMX and the status of the upgrade will be presented.

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