

Abstract Submitted
for the APR18 Meeting of
The American Physical Society

Recent Results from the ADMX Axion Dark Matter Search Experiment¹ EDWARD DAW, Univ of Sheffield — We present recent results from the ADMX haloscope search for dark matter axions in the mass range $2.66 - 2.81 \mu\text{eV}$. In this mass range, assuming an axion dominated dark matter halo, we will exclude at 90% confidence or discover axion-photon couplings predicted a range of plausible phenomenological axion models, including for the first time those predicted in the Dine-Fischler-Sredniki-Zhitnitsky (DFSZ) model. Ongoing searches will provide nearly definitive tests of the invisible axion model over a wide range of axion masses.

¹The University of Sheffield, Vice Chancellor's Strategic Development Fund

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Date submitted: 12 Jan 2018

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