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Latest axion search results from ADMX

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The Axion Dark Matter Experiment (ADMX) is an experiment that searches for axions as dark matter with a resonant cavity in a strong magnetic field. In previous operations, ADMX achieved DFSZ sensitivity between 2.66-3.31 micro eV with yocto Watt level background using a quantum amplifier and dilution refrigerator. The latest operation has searched between 3.3 to 4.2 micro eV between October 2019 and May 2021, and implemented several improvements, including synthetic axion injections and a more efficient data-taking cycle. I will show new axion search results from the latest operation as well as improvements on operation and analysis.

Are you are a member of the APS Division of Particles and Fields?

No

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