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From concept to reality: Advancements in the MADMAX Axion Experiment

Thursday, 19 September 2024 10:05 (20 minutes)

MADMAX, the MAgnetized Disc and Mirror Axion eXperiment, is a novel dielectric haloscope concept to detect the axion in the mass range 40-400 ueV through enhancement of the inverse Primakoff process. In this overview talk, I will review the experiment's design concept and discuss the status of ongoing research on the critical path of the experiment, including advancements in magnet development, and main prototype cryostat. The status of the first MADMAX room temperature and cryogenic runs performed in Spring 2024 will be presented.

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