

BREAD- The Broadband Reflector Experiment for Axion Detection

Thursday 27 March 2025 17:35 (15 minutes)

The BREAD Collaboration is conducting R&D towards wide band dish antenna searches for axions using a unique coaxial antenna design which is well suited for deployment in large solenoid magnets and compatible with sub-kelvin detectors. We will discuss the overall BREAD (Broadband Reflector Experiment for Axion Detector) program and its technology development, focusing on plans for detectors in the THz and infrared regions of the spectrum. Future experiments are being planned to share the use of a large-bore 9.4 Tesla MRI magnet recently acquired by Fermilab for the ADMX-EFR project.

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