

Search for the QCD Axion with ADMX

lundi 5 août 2024 11:00 (20 minutes)

Axion dark matter is a compelling particle that could solve both the Strong CP problem and account for all the dark matter in our Universe. Axion haloscopes search for axion dark matter through its conversion into microwave photons in the presence of a strong static magnetic field. The Axion Dark Matter eXperiment (ADMX) is one such axion haloscope and has achieved sensitivity to both benchmark models for the QCD axion through its use of a Josephson Parametric amplifier and low temperature dilution refrigerator. In this talk, I will provide an update on recent results from ADMX as well as updates on plans for higher frequency axion searches. IM No.:LLNL-ABS-865634

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