

# Dark Matter Radio

*Thursday, 23 August 2018 11:30 (30 minutes)*

The Dark Matter Radio (DM Radio) is a sensitive search for sub-eV axion and hidden photon dark matter covering the peV to  $\mu\text{eV}$  mass range. DM Radio uses a superconducting, tunable lumped-element LC resonator with SQUID-based readout. The DM Radio Pilot, a small-scale demonstrator, is now in operation. Planning and construction of a larger Phase I detector, which will set important new limits on axion and hidden photon dark matter, is underway. In this talk, I will discuss the motivation, detection strategy, status and prospects for the DM Radio experiment and show the dark matter phase space that DM Radio will search over the next several years.

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