

The SuperCDMS SNOLAB experiment

Wednesday, May 15, 2024 5:00 PM (20 minutes)

The low mass ($< 10 \text{ GeV}/c^2$) dark matter parameter space presents several candidates of interest, but requires devices with excellent energy resolution operated in ultra-low background environments to perform meaningful searches. SuperCDMS SNOLAB is a broadband direct dark matter search experiment projected to achieve world-leading sensitivity under $5 \text{ GeV}/c^2$ mass for nucleon-coupled dark matter candidates and probe previously unexplored regions in the sub-GeV mass range. As the experiment marches towards its commissioning phase, this talk will present an overview of the science, a brief status report and highlight results to anticipate in the near future.

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