



Contribution ID: 31

Type: **not specified**

SuperCDMS

Wednesday 10 May 2023 17:00 (30 minutes)

The Super Cryogenic Dark Matter Search (SuperCDMS) Collaboration uses cryogenic semiconductor detectors to look for evidence of dark matter interactions with ordinary matter. The current generation of the experiment is under construction at the SNOLAB underground facility in Sudbury, Canada. Two complementary detector designs, interleaved Z-sensitivity Ionization and Phonon (iZIP) detectors and High Voltage (HV) detectors, made of Germanium or Silicon will be used to probe low mass dark matter parameter space. This talk will provide an overview of the experiment and detector technology and present the expected sensitivity of SuperCDMS SNOLAB to different detection channels.

Virtual

Primary author: FASCIONE, Eleanor (TRIUMF/Queen's University)

Presenters: FASCIONE, Eleanor (TRIUMF/Queen's University); SWIDINSKY, Nicholas (Queen's University)