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Type: **Invited talk in the parallel session**

The SuperCDMS SNOLAB experiment: Mining Dark Matter in Northern Canada

Friday, 9 July 2021 06:30 (14 minutes)

Cold Dark matter is one of the major constituents of the leading cosmological model for our Universe, with many ongoing experimental efforts at directly detecting interactions of the hypothetical particle with terrestrial detectors.

SuperCDMS SNOLAB is a Generation-2 dark matter experiment under construction at SNOLAB in Sudbury, Canada. The experiment will employ two types of state of the art cryogenic Ge and Si detectors capable of detecting sub-keV energy depositions from potential dark matter interactions. This talk will present the ongoing efforts in building the SuperCDMS SNOLAB experiment as well as future operational plans to ultimately deploy an array of 24 detectors with the goal of improving sensitivity to light dark matter particles by orders of magnitude compared to existing limits.

Primary author: SAAB, Tarek (University)

Presenter: SAAB, Tarek (University)

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