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Contribution ID: 2651 Type: **Poster Competition (Graduate Student) / Compétition affiches (Étudiant(e) 2e ou 3e cycle)**

78 - LED-Based Detector Calibration Studies for the SuperCDMS SNOLAB Experiment

Tuesday 4 June 2019 17:23 (2 minutes)

SuperCDMS at SNOLAB is a direct search experiment for dark matter, targeting dark matter particles with low mass ($\leq 10 \text{ GeV}/c^2$). In order to achieve the projected sensitivity, a lower background, in addition to lower threshold energy, are a necessity. In the past, detector calibration was performed using radioactive sources. Currently, we are exploring the possibility of using LED-based calibration methods. In my talk, I will discuss measurements using LEDs of various wavelengths operated at cryogenic temperatures to study the detector stability. Moreover, I will report the progress made using this new method for detector calibration.

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