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(G*) CUTE: An Overview and Applications to SuperCDMS

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Cryogenic detectors offer excellent resolution and sensitivity for low mass dark matter searches but require testing in a well-shielded, low background environment for complete characterization. The Cryogenic Underground TEst (CUTE) facility is located 2 km underground in SNOLAB near Sudbury, ON. CUTE has served as a well-shielded, low background site for the testing, characterization and optimization of Super Cryogenic Dark Matter Search (SuperCDMS) detectors, since 2019. The low background at the facility combined with the low threshold of the new SuperCDMS detectors leaves the door open for competitive dark matter searches at CUTE. This talk will present an overview of the CUTE facility, a progress report of detector testing and measurements done to date and exciting plans for the upcoming testing of the first SuperCDMS detector tower at CUTE.

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