

The Cryogenic Underground Test Facility at SNOLAB

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I describe the Cryogenic Underground TEst (CUTE) facility at SNOLAB. The facility includes an operating dilution refrigerator that can achieve stable operations at 12 mK base temperature. The CUTE facility also includes shielding from ionizing radiation, both from the SNOLAB ground and from the dilution unit of the refrigerator. There are also technologies to isolate the experimental stages from vibrations from the laboratory and from the cooling system. The facility is transitioning to a user facility, and I will discuss the current status and plans to start supporting experiments, as well as device and detector development in this cryostat that is isolated from the environment.

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No, this is an entirely new submission.

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