



Canadian Association  
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(Étudiant(e) du 1er cycle)

Type: **Poster Competition (Undergraduate Student) / Compétition affiches**

## **(U\*) (POS-36) Commissioning and Calibration of a High Purity Germanium (HPGe) Detector at SNOLAB**

*Tuesday 7 June 2022 17:48 (2 minutes)*

SNOLAB has a low background gamma ray counting facility to screen materials for use in the next generation of Neutrinoless Double Beta decay and Dark Matter experiments. The low background is achieved through a 2 km depth underground, gamma ray shielding from the lab environment, and Radon reduction with Nitrogen purge gas. SNOLAB has acquired a new detector in collaboration with the Health Canada, Comprehensive Nuclear Test Ban Treaty Monitoring Program. The detector will be used to further their high sensitivity monitoring program. We will present the results of the initial commissioning and calibration of this detector.

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**Presenter:** SUBHI, Hassan

**Session Classification:** PPD Poster Session & Student Poster Competition (21) | Session d'affiches PPD et concours d'affiches étudiantes (21)

**Track Classification:** Technical Sessions / Sessions techniques: Particle Physics / Physique des particules (PPD)