Contribution ID: 34 Type: not specified

## DEAP-3600 Hardware Upgrades and Verifying the Energy Reconstruction in Data Reprocessing

Monday, August 19, 2024 2:15 PM (10 minutes)

DEAP-3600 is searching for WIMP dark matter with a 3.3 ton single phase liquid argon (LAr) target, 2070 m underground at SNOLAB in Sudbury, Canada. A newly upgraded neck install has been performed this summer, concluding the last stretch of detector upgrades to mitigate previously identified background radiation. Details of the upgrades will be presented in this talk.

The talk will also cover details of analysis work on performing energy calibration using Th-208 and K-40 peaks in the energy data taken through the detector. This serves as the first step into quantifying main direct backgrounds for the WIMP search.

## What area of study best describes your talk?

Physics

If you answered 'Other', please provide the study area.

Primary author: IQBAL, Ayesha (Laurentian University)

**Presenter:** IQBAL, Ayesha (Laurentian University)

Session Classification: Presentations