

## Producing the World's Cleanest Noble Gas for DEAP-3600

*Tuesday 16 August 2022 14:12 (12 minutes)*

DEAP-3600 at SNOLAB uses 3600 kg of liquid argon to search for dark matter. The argon used must be pure at the part per billion level for the detector to operate properly and for the pulse-shape discrimination to work. In this talk I will discuss the recommissioning of the DEAP-3600 argon process system for the third fill of the detector that will take place this winter. This talk will follow the flow of argon through the purification loop, which consists of the process pump, hot zirconium getter, radon trap, condenser, and boiler.

**Author:** ROURKE, Sarah

**Presenter:** ROURKE, Sarah

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