

## Recent developments of the PICO dark matter detectors

*Friday 31 March 2023 08:00 (15 minutes)*

PICO is currently fielding two large dark matter bubble chamber detectors at SNOLAB.

**PICO-40L** is the first of a new type of dark matter detector using an improved detector geometry. The detector was recently refurbished with a new cooling system and is operating now at SNOLAB.

At the same time **PICO-500**, a large dark matter bubble chamber following the same principle as PICO-40L is under construction. Major detector components have been received and are being prepared for shipment to SNOLAB.

We will present our experimental progress and recent data analysis.

**Presenter:** MOORE, Colin

**Session Classification:** SESSION 10: Direct Detection: status of liquid/gas WIMP detectors (CHAIR: Alvine Kamaha -UCLA)

**Track Classification:** Non-directional direct dark matter detection