

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.

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

Track Classification: Non-directional direct dark matter detection