

Summer Particle (Astro) Physics Workshop (2022)

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PICO

Friday 6 May 2022 17:30 (30 minutes)

The PICO collaboration operates freon-filled bubble chambers for the direct detection of dark matter, focused primarily on the spin dependent WIMP-proton regime. This session will describe the history and basics of bubble chambers as particle detectors, their role in dark matter direct detection, and the PICO-40L chamber. PICO-40L is the current generation of bubble chamber being assembled at SNOLAB in Sudbury, Canada, which is planned to begin re-commissioning in summer 2022.

Presenter: MOORE, Colin