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Ken Clark (SNOLAB): The PICO Experiment

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The PICO collaboration uses bubble chambers to search for dark matter with results leading the world in sensitivity to the direct detection of WIMPs with spin-dependent coupling to protons. PICO recently operated a 32 litre bubble chamber (PICO-60) at the SNOLAB underground laboratory and currently has a 40 litre detector under construction. This new device (PICO-40L) will demonstrate the viability of the new design and prove the viability of scaling up to the next ton-scale experiment (PICO-500). A discussion of the technology, recent results, and future plans will be presented.

Presenter: CLARK, Ken (SNOLAB)

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