

## Scintillating Bubble Chamber

*Monday 10 May 2021 13:50 (20 minutes)*

Increased attention to low mass dark matter has necessitated the need for detectors with lowered energy thresholds. The Scintillating Bubble Chamber, to be installed at SNOLAB in 2022, builds on the world-leading work of the PICO collaboration, replacing the fluorine-based target with a noble liquid. The associated reduction in gamma sensitivity allows a much lower threshold to be set. Plans for the SNOLAB chamber will be discussed, as well as the possibility of scaling up the detector, all in relation to developments in other bubble chambers and dark matter detector technologies.

**Presenter:** CLARK, Ken (Queen's University)

**Session Classification:** Dark Matter Searches