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Snowball Chamber: a Super-cooled Approach to Dark Matter Detection CORWIN KNIGHT, MATTHEW SZYDAGIS, CECILIA LEVY, State Univ of NY - Albany — As higher mass particles are eliminated as possibilities in the search for dark matter, it is important to explore new types of detectors that are more specialized at looking for lower mass particles. For this purpose, I've been exploring super-cooled water as a target material for future detectors. This talk will go over the motivations for a detector of this type, the preliminary evidence that has been collected, and additional applications beyond searching for dark matter.

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