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Dark matter searches using superheated liquid detectors

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In this talk, the technique of using bubble nucleation in superheated liquid detectors for dark matter searches is addressed. This technique can be very competitive, especially for the case of spin dependent interaction. Different detectors, such as bubble chambers, liquid droplets and geyser chambers will be presented. Finally, the activities and results of PICO bubble chambers will be shown. A new world-best spin dependent WIMPproton cross-section limit has been obtained with the first physics run of PICO 2L-detector.

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