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Searching for Dark Matter with PICASSO

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The Project In CANada Searching for Supersymmetric Objects (PICASSO) at SNOLab searches for Weakly Interacting Massive Particle (WIMP) interactions with ^{19}F . It is particularly sensitive to spin-dependent particle interactions. It uses a droplet technique, based on the principle of a bubble chamber, in which phase transitions in superheated liquids can be triggered by WIMP induced nuclear recoils. The detection process allows a highly efficient suppression of backgrounds from cosmic muons, gamma rays and beta particles. In this talk recent progress and results will be presented, with particular focus on the 10 GeV low mass region, for both spin dependent and independent interactions.

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