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Studying neutrinos with the Scintillating Bubble Chamber

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The Scintillating Bubble Chamber (SBC) is a novel technology currently being developed for sub-keV nuclear recoil detection. This technique combines the event-by-event energy recoil of a liquid-noble scintillation detector with the world-leading electron recoil discrimination of a bubble chamber while significantly lowering the detection threshold. Unambiguous identification of sub-keV nuclear recoils in a scalable detector makes this an ideal technology for both low-mass WIMP searches and CENS detection at reactor sites. Progress will be presented as the SBC collaboration works towards the construction of a pari of 10 kg argon bubble chambers at Fermilab and SNOLAB.

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