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Ben M Loer (PNNL): Prospects for Low Mass WIMP Searches with SuperCDMS

Friday 23 February 2018 18:15 (15 minutes)

SuperCDMS is the premiere experimental search for low mass Weakly Interacting Massive Particle (WIMP) dark matter in the $O(1 \text{ GeV})$ mass range. In this talk I will begin with a brief preview of new results on the way from the third and final run of high voltage detectors at Soudan laboratory. The majority of this talk will focus on the upcoming SuperCDMS SNOLAB and will describe the overall experiment design, improved detector technology for improved resolution and lower thresholds, current status and projected backgrounds and sensitivity.

Presenter: LOER, Ben (PNNL)

Session Classification: Session 17