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SuperCDMS SNOLAB

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SuperCDMS SNOLAB will be a second generation experiment aimed at directly detecting low-mass (≤10 GeV/c2) dark matter. By measuring ionization and phonon signals using a combination of cryogenic detectors of two types (HV and iZIP) and two target materials (germanium and silicon) we maximize the low-mass reach. The science reach of the detectors show an improvement of 2-3 orders of magnitude beyond current results from SuperCDMS Soudan in cross section, and an order of magnitude in mass, due to improved detector design and a cleaner experimental site. This poster will discuss the projected sensitivity and current status of the SuperCDMS SNOLAB which is expected to start operation in 2020.

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