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The SuperCDMS Soudan High Mass Analysis

Monday, 31 July 2017 11:00 (15 minutes)

The SuperCDMS Soudan experiment searches for direct interactions of WIMP dark matter particles with germanium nuclei. The experiment uses detectors (iZIPs) with sophisticated ionization and phonon sensors to distinguish nuclear-recoils from electron-recoil backgrounds or surface contaminants. We report the result of an analysis, based on a ~1700 kg-day exposure, that seeks to maximize our experimental sensitivity to spin-independent WIMP-nucleon interaction in the high mass regime (M > 10 GeV/c^2).

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