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Cryogenic Dark Matter Search Experiment: Status and Plans

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The Cryogenic Dark Matter Search (CDMS) experiment is designed to search for Dark Matter in the form of Weakly Interacting Massive Particles (WIMPs). CDMS deploys semiconductor detectors, based on Ge or Si substrates with ionization and phonon sensors, which provide very effective event-by-event rejection of the dominant electromagnetic backgrounds. The detectors are operated at cryogenic temperatures (50 mK) deep underground at the Soudan Underground Laboratory. I will summarize the latest results obtained by the CDMS II experiment at Soudan. I will also discuss the plans to increase the sensitivity and the total detector mass in the future runs of the SuperCDMS and GEODM experiments.

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