

Abstract Submitted
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The Nuclear Recoil Energy Scale in CDMS II Detectors SCOTT FALLOWS, University of Minnesota, CDMS COLLABORATION — A systematic calibration of the detector response to low-energy nuclear recoils is necessary to translate results from the direct detection of Weakly Interacting Massive Particles (WIMPs) into allowed ranges of WIMP mass and couplings. We present measurements of the energy scale for nuclear recoils for the Z-sensitive Ionization and Phonon (ZIP) detectors used by the Cryogenic Dark Matter Search (CDMS). The absolute energy scale and upper limits on its uncertainty are determined from the energy spectra and ionization yield of neutrons incident from a ^{252}Cf source in calibration runs of the detectors. Implications on WIMP limits are shown.

Scott Fallows
University of Minnesota

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