## Abstract Submitted for the APR11 Meeting of The American Physical Society

Results from the CDMS Detector Monte Carlo KEVIN MC-CARTHY, STEVEN LEMAN, ENECTALI FIGUEROA-FELICIANO, MIT — The Cryogenic Dark Matter Search (CDMS) Detector Monte Carlo is a simulation of the detectors used in the CDMS experiment that models the phonon and charge propagation in the detector crystal as well as the transition edge sensors and charge collectors patterned on the detector surfaces. Comparisons of multiple fabricated detector architectures with Detector Monte Carlo (DMC) output reveal good agreement between the data and the simulation. I will present on ongoing investigations into using this powerful tool to support our future dark matter search efforts through pulse shape discrimination of electron and nuclear recoils and the effects on our calibration data from multiple internal scatters of gammas and neutrons.

Kevin McCarthy MIT

Date submitted: 14 Jan 2011 Electronic form version 1.4