

Abstract Submitted
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Energy Response of DM-Ice17¹ ANTONIA HUBBARD, University of Wisconsin - Madison, DM-ICE COLLABORATION — Dark Matter-Ice (DM-Ice) is a South Pole dark matter experiment using NaI(Tl) detectors. It will search for the annual modulation signature expected in the WIMP-nucleon collision rate. A 17-kg prototype detector (DM-Ice17) has been in operation since January 2011 with stable data since June 2011. We present here the data analysis from DM-Ice17. It is a unique challenge to calibrate a detector buried under 2450 m of ice, and I will discuss the use of internal contamination lines for calibration and introduce the verification of calibration through comparison with simulation.

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Antonia Hubbard
University of Wisconsin - Madison

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