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Event Characteristics in DM-Ice-17 ZACHARY PIERPOINT, University of Wisconsin – Madison, DM-ICE COLLABORATION — DM-Ice17, a 17 kg sodium iodide prototype detector for the proposed DM-Ice experiment, was deployed in the Antarctic Ice at the geographic South Pole in December 2010, and has been in operation since January 2011. A variety of types of events are observed in DM-Ice17 characterized by distinct waveforms and trigger conditions. Defining characteristics of these different events allow for identification, and consequently, cuts on the dataset have been developed. I will describe the types of events in our detector, their trigger efficiency, and the observed background rates in DM-Ice17.

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