Abstract Submitted
for the DNP15 Meeting of
The American Physical Society

Results from the DM-Ice17 Dark Matter Experiment[1] ZACHARY PIERPOINT, Yale Univ, DM-ICE COLLABORATION — DM-Ice is a phased experimental program using low-background NaI(Tl) crystals aimed at unambiguously testing the claim that the annual modulation observed in DAMA/LIBRA is due to dark-matter. DM-Ice17, consisting of 17kg of NaI(Tl), has been continuously operating at the South Pole for over 4 years, demonstrating the feasibility of a low-background experiment in the Antarctic ice. Studies of backgrounds including cosmogenic activation, muon phosphorescence, and non-scintillation noise, detector stability, as well as an analysis of the low-energy spectrum in DM-Ice17 will be presented.

[1]On behalf of the DM-Ice Collaboration

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Date submitted: 09 Jul 2015 Electronic form version 1.4