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Into the Depths: Lowering the Energy Threshold at the Sudbury Neutrino Observatory GABRIEL OREBI GANN, University of Pennsylvania, SUDBURY NEUTRINO OBSERVATORY COLLABORATION — The Sudbury Neutrino Observatory has successfully demonstrated the phenomenon of neutrino oscillation by observing both the total active solar neutrino flux, via the Neutral Current interaction on deuterium, and the pure ν_e component via the Charged Current interaction. An improved analysis of SNO data aims to lower the energy threshold of the analysis, resulting in increased statistics and a greater sensitivity to possible distortions in the incident neutrino energy spectrum. This talk discusses some of the improvements made in order to achieve a high precision measurement.

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