Abstract Submitted for the DNP06 Meeting of The American Physical Society

Graphic User Interface for the NIMROD Silicon Detectors CHRISTOPHER CRANE — Graduate student Sara Wuenschel and I created the "Bias Box Control v3.2" Graphic User Interface program. It was designed with the intent of monitoring voltage and current while biasing to Nimrod's detectors rings, including the newest addition to the Texas A&M Cyclotron Institute ISIS a spherical particle detector. NIMROD and ISIS are both nuclear particle detectors located in the Texas A and M cyclotron. The program takes user input values and sends Biasing voltages to NIMROD's various rings. The GUI also monitors the actual charge held in the detectors of a specified ring, and the leakage current on a specific silicon of that ring. An experimentalist can load "voltage" files, save voltage values, set all channels at once, set all channels to zero, Refresh the monitoring status of the ADC, and change a voltage array load file. The current status of the GUI is functional and future revisions of versions may include support for Ion Chambers. The program was created in Linux but can easily be ported over to Windows and Macintosh formats.

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Date submitted: 08 Aug 2006

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