Abstract Submitted
for the DNP17 Meeting of
The American Physical Society

Data quality assurance for the MAJORANA DEMONSTRATOR
JORDAN MYSLIK, Lawrence Berkeley Natl Lab, MAJORANA COLLABORATION — The MAJORANA DEMONSTRATOR is an experiment constructed to search for neutrinoless double-beta decay in germanium-76 and to demonstrate the feasibility to deploy a large-scale experiment in a phased and modular fashion. It consists of two modular arrays of natural and 76Ge-enriched germanium detectors totalling 44.1 kg, located at the 4850' level of the Sanford Underground Research Facility in Lead, South Dakota, USA. Any neutrinoless double-beta decay search requires a thorough understanding of the background and the signal energy spectra. Data collection is monitored with a thorough regimen, instrumental background events are tagged for removal, and subsequent careful analysis of the collected data is performed to ensure that there are no deeper issues. This talk will discuss the various techniques employed to ensure the integrity of the measured spectra.

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Date submitted: 30 Jun 2017 Electronic form version 1.4