

Reaching higher sensitivities for neutrinoless double beta decay with GERDA phase II

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The GERDA collaboration has recently unblinded data of Phase I. In order to further improve the sensitivity of the experiment, additionally to the coaxial detectors used in GERDA Phase I 30 BEGe detectors made from germanium enriched in Ge-76 will be deployed. BEGe detectors have superior PSD capability, thus the background can be further reduced. The liquid argon surrounding the detector array will be instrumented in order to reject background by detecting scintillation light induced in the liquid argon by radiation. The hardware preparations for GERDA phase II as well as the processing and characterization of the 30 BEGe detectors will be discussed.

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