## XV Neutrino Telescopes Workshop Palazzo Franchetti - Venice, 11-15 March 2013

## Poster Session - Submission of Abstract

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Title of the poster: Keeping the background low: Production and testing of

the GERDA Phase II detectors

## Abstract text:

The GERmanium Detector Array (GERDA) searches for neutrinoless double beta decay of <sup>76</sup>Ge. The first phase using ~15 kg of coaxial germanium detectors is ongoing. In a second phase, additional ~20 kg of newly produced Broad Energy Germanium (BEGe) detectors will be deployed. To limit the generation of cosmogenically induced radioisotopes, the exposure of the germanium to cosmic radiation during the detector production and testing was minimized. An acceptance and characterization campaign of the newly produced detectors was carried out at the HEROICA facility in the HADES underground laboratory in Mol, Belgium. An overview over the complete production process, from isotopic enrichment of the material to the detector testing protocol, will be presented.

## Summary:

The poster summarizes the production process and acceptance testing of the newly produced BEGe detectors for GERDA Phase II.