



Friday 8 July, 09:25 – 09:45

Session 13: Neutrino properties I: searches for neutrinoless double beta decay

First results from GERDA Phase II

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The GERDA experiment searches for the neutrinoless double-beta decay of Ge-76 by operating bare Ge detectors in liquid argon. After completion of the successful GERDA Phase I, the experiment was upgraded to double the target mass and significantly reduce the background level. Newly-designed Ge detectors were installed along with a background veto system detecting the liquid argon scintillation light. Phase II of data-taking started in Dec 2015 with about 35 kg of Ge detectors and is currently ongoing. First results from GERDA Phase II and perspectives will be presented.