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## LEGEND: The Future of Neutrinoless Double-Beta Decay Searches with $^{76}\text{Ge}$ -enriched Germanium Detectors

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The observation of neutrinoless double beta ( $0\nu\beta\beta$ ) decay would establish the Majorana nature of neutrinos and explicitly show that lepton number conservation is violated. In their search for the rare decay in the isotope  $^{76}\text{Ge}$ , the `{sc Gerda}` and `{sc Majorana Demonstrator}` (MJD) experiments have achieved the lowest backgrounds and the best energy resolution in the signal region of interest of any  $0\nu\beta\beta$  decay experiment. Building on the successful results of these experiments, the Large Enriched Germanium Experiment for Neutrinoless Double Beta Decay (LEGEND) Collaboration aims to develop a phased  $0\nu\beta\beta$  decay experimental program with the discovery potential at a half-life beyond  $10^{28}$  years. To achieve this goal, the enriched Ge detector mass has to be increased up to the tonne-scale and the backgrounds have to be reduced further. The first phase of LEGEND, a 200 kg measurement utilizing the existing `{sc Gerda}` infrastructure at LNGS in Italy, is expected to start in 2021. This talk will give an overview of LEGEND and discuss its envisioned first phase LEGEND-200. In particular, the plans and physics reach of LEGEND together with the various ongoing R&D efforts will be presented.

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