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## The Large Enriched Germanium Experiment for Neutrinoless Double Beta Decay (LEGEND)

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Fifty years ago, Ettore Fiorini and collaborators published the first results of a  $^{76}$ Ge based search for neutrinoless double beta decay (0v $\beta\beta$ ). In the ensuing five decades, the sensitivity for 0v $\beta\beta$  searches using  $^{76}$ Ge has increased by five orders of magnitude, from the 1967 limit of  $T_{1/2} \ge 3 \times 10^{20}$  years to GERDA's recent result of  $T_{1/2} \ge 5.3 \times 10^{25}$  years. The current generation  $^{76}$ Ge experiments, GERDA and the MAJORANA DEMONSTRATOR, have now achieved the lowest backgrounds in the 0v $\beta\beta$  region of interest of any 0v $\beta\beta$  experiments. These results, coupled with the intrinsic superior energy resolution of Ge (0.1%) demonstrate that germanium is an ideal isotope for a large next generation experiment. The LEGEND collaboration, with 220 members from 47 institutions around the world, has been formed to pursue a ton scale  $^{76}$ Ge experiment. Building on the successes of GERDA and the MAJORANA DEMONSTRATOR, the LEGEND collaboration aims to develop a phased 0v $\beta\beta$  experimental program with discovery potential at a half-life significantly longer than  $10^{27}$  years, using existing resources as appropriate to expedite physics results. This talk will present an overview of LEGEND and discuss its envisioned first phase, a 200 kg measurement utilizing the existing GERDA cryostat at LNGS.

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