

Abstract Submitted
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Status of LEGEND - Progress on LEGEND-200 and Outlook towards ton-scale RALPH MASSARCZYK, Los Alamos National Laboratory, LEGEND COLLABORATION COLLABORATION — The Large Enriched Germanium Experiment for Neutrinoless $\beta\beta$ Decay (LEGEND) is an experimental effort to search for neutrinoless double-beta decay in ^{76}Ge . Using a phased approach, the collaboration aims to develop an experimental program with the discovery potential reaching a half-life beyond 10^{28} years.

In the first 200-kg phase, LEGEND will use existing resources as appropriate to expedite physics results. I will give an overview and status report on LEGEND-200 whose first test and commissioning phase will start this year. Furthermore, my talk will have an outlook on LEGEND-1000, and the physics reach of the ton-scale effort. An overview will be given on the various ongoing R&D efforts which are needed to reach the desired sensitivity.

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