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Neutrinoless double beta decay searches with 76Ge

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The search for neutrinoless double beta decay might be the only window to observe lepton number violation and is therefore considered to be of highest relevance. The isotope 76Ge has historically been most important for this search and the ongoing experiment GERDA has the lowest background and best energy resolution of all experiments in the field. The talk reviews the motivation, the current status of experiments and future programs.

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