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Proton emission - new results and future prospects

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Proton emission is the radioactive decay mode that is expected to determine the limit of observable proton-rich nuclei for most elements. Considerable progress has been made in the study of proton-emitting nuclei since the first observation of direct proton emission nearly 50 years ago. This has led to improvements in our understanding of this decay process and provided invaluable nuclear structure data far from the valley of beta stability. This talk will review the current status of the field, including some recent results, and consider some exciting prospects for future studies of proton-emitting nuclei at radioactive ion beam facilities.

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