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Recent highlights on in-beam gamma spectroscopy of rare isotopes

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The past few years, a new level of sensitivity for the structure of neutron-rich nuclei via in-beam gamma spectroscopy has been reached. New generation high resolution photon arrays have become available and used at Radioactive Isotope facilities. The Radioactive Isotope Beam Factory of RIKEN, today's leading machine to produce radioactive ions at intermediate energies, succeeds in producing Uranium, Zinc and Calcium primary beams at very high intensities (above 15, 50 and 200 pnA, respectively). Additional developments, such as the MINOS hydrogen target, contribute in reaching unknown regions of the nuclear landscape. The most recent achievements in nuclear structure of rare isotopes obtained from in-beam gamma spectroscopy worldwide will be presented.

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