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Gamma-Ray Spectroscopy at the Limits

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The study of nuclei far from stability is one of the most active and challenging areas of nuclear structure physics. Studies of the most exotic neutron-rich isotopes require an unprecedented combination of beam intensities and detection sensitivity, which will soon be realized in the United States at the Facility for Rare Isotope Beams, with γ -ray spectrometers such as GRETA. The GRETINA array, being operated at NSCL and ATLAS at ANL is already pushing forward the limits of such measurements, with impacts in basic nuclear structure, nuclear astrophysics and applications. I will present an overview of the program of GRETINA/GRETA and highlight a few examples of the compelling physics being pursued.

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