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Exotic structures in exotic nuclei

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The advent of new generation radioactive beam facilities has provided for a rather complete mapping of the nuclear landscape up to mass number 30. Among all the so-called exotic nuclei (not found on Earth), some very neutron-rich ones exhibit properties that are in fact exotic: extended matter distributions, few-body resonances, extreme neutron to proton ratios... In this talk we will illustrate some of these examples with recent results obtained at the Radioactive Isotope Beam Factory (RIBF) of the RIKEN Nishina Center in Japan.

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