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The far side of the neutron dripline at RIKEN

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The Radioactive Isotope Beam Factory (RIBF) at RIKEN, Tokyo, has become the world's most powerful machine for the production of exotic nuclei. At intermediate masses, it is pushing the frontier of existence towards areas until now inaccessible, and below Fluorine it is leading us even beyond. After a brief description of the facility, we will see the very preliminary results of the first SAMURAI campaign, in which we have created systems as exotic as Boron 20 and Oxygen 26, and conclude with our plans to extend the neutron detector NEBULA for the measurement of Oxygen 28 in 2015.

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