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First results from RIBF and the scope

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Astrophysical rapid neutron-capture process (r-process) has been recognized to play an important role for the synthesis of approximately half of the heavy elements above iron. Recently, a new generation of accelerator facility (RIBF) has been completed and started providing opportunities of exploring very neutron-rich nuclei along the r-process path region. In this paper, the first results from RIBF will be presented. Furthermore, overall scope of experimental aspects will be discussed related to the astrophysical nucleosynthesis.