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Overview of RIBF and direct reactions with fast RI beams at RIBF

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New-generation RI beam facilities such as RI Beam Factory (RIBF) will drastically enlarge the experimental opportunities to study the structure of unstable nuclei. In this field, direct-reaction measurements by the detection of the de-excitation γ rays are the indispensable tools to probe the single particle and collective nature of the low-lying states. First, overview of RIBF and the BigRIPS Separator recently commissioned will be presented. Secondly, the experimental cases at RIBF with existing γ -ray detector arrays and advanced γ -ray detector arrays will be discussed.