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## Study of Collectivities in Neutron-rich N~40 Cr isotopes

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A life-time measurement of excited states in neutron-rich deformed nuclei in the mass  $A \approx 60$  region is planned (NP0906-RIBF07). The recoil distance method (RDM) using the intermediate energy RI beams will be used to measure the lifetimes of 2+ and 4+ states in 60-64Cr and their neighbors. The Big RIPS fragment separator at RIBF will be used to produce the neutron-rich isotope beams in N~40 region by impinging 345AMeV 70Zn beams on a 9Be target. Gamma rays from the excited states at the secondary target will be measured by CNS GRAPE and DALI-2, and the scattered ions will be identified with the Zero Degree spectrometer. The main purpose of the experiment is to study collectivities of the neutron-rich Cr isotopes in a new island of inversion by extracting B(E2) values precisely through lifetime measurements.

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