

# Decay Spectroscopy at the Radioactive Isotope Beam Factory (RIBF) at RIKEN

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## Decay Spectroscopy of Neutron-Rich Rh and Ru Isotopes Towards N=82

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We propose studying neutron-rich Rh and Ru isotopes near N=82, up to 126Rh and 124Ru, using beta decay and isomer spectroscopy with a new gamma detection array. The primary goal of this proposal is to test the persistence of the N=82 shell closure, which is robust in Cd and Pd isotopes but remains uncertain for Z<46. Additionally, this study aims to benchmark nuclear structure models and clarify the mechanisms driving shell evolution in this region. These spectroscopic measurements are also expected to provide critical insights into the competition between closed-shell stability and deformation in this region.

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**Clasificación de la sesión :** Neutron Rich Nuclei towards 132Sn