

In-beam γ -ray Spectroscopy of ^{97}Cd

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^{100}Sn ($N=Z=50$) and its neighboring nuclei have drawn great attention due to its possible doubly-magic nature and location around the proton drip-line. Being predicted as the end point of rp-process path, the properties of these nuclei also directly affect the synthesis of heavier elements. We therefore performed in-beam γ -ray spectroscopy of ^{100}Sn and the neighboring nuclei using DALI2+ gamma-ray detection array at RIBF RIKEN. In this talk, we will present the measurement of ^{97}Cd ($N=49$, $Z=48$). Preliminary level scheme of ^{97}Cd and comparison of shell model calculations will be discussed.

Experimental nuclear physics

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Theoretical nuclear physics

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