

# In-beam $\gamma$ -ray Spectroscopy of $^{97}\text{Cd}$

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$^{100}\text{Sn}$  ( $N=Z=50$ ) 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  $\gamma$ -ray spectroscopy of  $^{100}\text{Sn}$  and the neighboring nuclei using DALI2+ gamma-ray detection array at RIBF RIKEN. In this talk, we will present the measurement of  $^{97}\text{Cd}$  ( $N=49$ ,  $Z=48$ ). Preliminary level scheme of  $^{97}\text{Cd}$  and comparison of shell model calculations will be discussed.

## Experimental nuclear physics

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## Theoretical nuclear physics

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