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## In-beam y-ray Spectroscopy of 97Cd

Tuesday, 17 August 2021 16:30 (15 minutes)

 $^{100}$ 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  $\gamma$ -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 97Cd and comparison of shell model calculations will be discussed.

## **Experimental nuclear physics**

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## Theoretical nuclear physics

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