

Decay spectroscopy around ^{78}Ni

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Systematic study such as of the level structure and decay half lives in exotic nuclei are important to test the persistence of the shell structure. The EURICA project has deepened the understanding around the ^{78}Ni region with the massive amount of decay data (e.g. [1]). The new gamma-ray spectrometer at RIBF could have a capability to extend the region with its higher gamma-ray detection efficiency and also with the increased primary beam intensity of ^{238}U and ^{70}Zn .

In this presentation, several physics cases related to the region from neutron-rich Ca to Ni will be discussed based on the results of the EURICA & BRIKEN collaborations.

[1] Z. Y. Xu, S. Nishimura et al., Phys. Rev. Lett. 113, 032505 (2014).

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