Contribution ID: **5** Type: **not specified**

Neutron monopole drift towards 78Ni investigated by γ-spectroscopy following 81Cu β-decay

Monday, 12 September 2011 14:15 (15 minutes)

We propose to investigate the beta decay of the neutron rich N=52 nucleus 81Cu for EURICA campaign, in order to observe for the first time the low lying excited states in the N=51 isotone 81Zn. N=51 odd isotones constitute the best cases to study the neutron single particle effective energy evolution towards 78Ni. The study of 81Zn level sequence will provide critical data to predict the neutron single particle sequence in the 78Ni field. It is expected in that way to shed light on the structure of 78Ni itself, which could be the most neutron rich example of a doubly magic nucleus in the nuclide chart. The study will be performed at RIBF with EURICA detectors.

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Session Classification: Neutron-Rich I