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Overview of the experiment RIBF30 ; In-beam gamma-ray spectroscopy for vicinity of 78Ni

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This experiment was performed at RIBF in 2011.
The physical goal of this experiment is understanding nuclear structure and nuclear force in the region of around 78Ni.
Excited energy levels of nuclei around 78Ni was studied by knock-out reaction impinging RI-beam on Be target(1889 mg/cm2).
The gamma-ray was mesured by DALI2 at F8 detector and residual nuclei was identified by ZeroDegree spectrometer.
We obtained a lot of spectra of nuclei of around 78Ni.
I will discuss the shell structure evolution of the magic number Z=28 and N=50 based on obtained results.

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