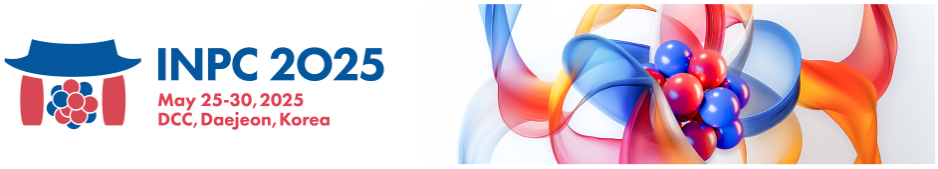

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Nuclear structure around 132Sn from gamma-ray spectroscopy performed at RIBF

Wednesday, 28 May 2025 08:30 (30 minutes)

In recent years, significant progress has been made in the study of the structure of atomic nuclei in the vicinity of doubly-magic 132Sn. In this presentation, I will summarize the valuable contributions to this progress made by in-beam and decay gamma-ray spectroscopy experiments performed at RIBF (Tokyo, Japan). This includes studies of the shell evolution beyond 132Sn, both along the Z=50 and N=82 semi-magic chains, as well as new insights into the isospin dependence of effective charges. Furthermore, it will be discussed how complementary information obtained using inelastic scattering on light and heavy targets and the DALI2+ and HiCARI gamma-ray spectrometer allowed to investigate collective excitations in the vicinity of 132Sn.

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