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Kiwis or frisbees? Onset of deformation above N=50

Wednesday, 2 August 2023 09:30 (25 minutes)

The SEASTAR campaigns allowed us to have a first look into the structural evolution of neutron rich Ge isotopes, up to N=56, through in-beam gamma spectroscopy. In addition, the availability of the EURICA array for the first campaigns allowed to efficiently do decay spectroscopy on most neutron rich isotopes, including Se up to N=60. The spectroscopy hinted at a rich picture for the evolution of quadrupole deformation in this region, ranging from the onset of collectivity next to the shell (from ⁸⁴Ge) to potentially triaxial structure in ⁸⁶Ge, and signatures for a prolate-oblate shape coexistence in then neutron-rich Se isotopes. The exploration into this region of the nuclear chart will be reviewed. It will be put into context with the structural evolution around N=56-60 in higher-Z isotopes like Zr, and will be related to more recent approaches taken at RIBF.

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