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Inside Nuclear Properties with g-factors

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Nuclear moments are fundamental probes to study the intrinsic structure of the nucleus. Various methods and applications are used in the past depending on the specific decay or de-excitation mode of the nucleus. Such experimental investigations for isomeric states were performed for example in various facilities as RIBF/RIKEN, ALTO, GSI/FAIR employing some of the well-known methods in combination with dedicated gamma-ray and particle detectors.

The states of interest are produced in different nuclear reactions, including fragmentation and fission at high to relativistic energies. Recent g-factor measurements using these reactions for nuclei in the vicinity of the doubly-magic ^{132}Sn will be shown, together with future feasibilities for such nuclear structure measurements.

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