Selected cases of nuclear moments in the region of 100Sn

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In the regions of doubly-magic nuclei certain states (e.g. isomers) have rather pure single-particle or twoparticle(hole) configurations and provide unique opportunity to study different observables. On the other hand particle-hole excitations or configuration mixing can modify the values expected from simple models. Therefore, the study of nuclear electromagnetic moments is of particular interest since these provide most sensitive information on the nuclear configurations as well as deformations thus revealing the underlying nuclear structure. Experimentally more easily accessible are longer lived states like ground and isomeric states. Selected experimental and shell-model results related to quadrupole and magnetic moments of nuclear states in the region around 100Sn will be reminded and discussed.

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