

Study of light Sn isotopes through Coulomb excitation and (d,p) transfer experiments

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Shell evolution of Sn isotopes is an active research area in nuclear structure. Recently, Monte Carlo Shell Model calculations predicted shape evolution and active proton core excitations, as explanations for the enhancement of B(E2) values in the light Sn isotopes toward the doubly magic ^{100}Sn , relative to the simple seniority scheme. Several Coulomb excitation experiments were carried out at the HIE-ISOLDE facility, for more precise B(E2) measurements in $^{106,108,110}\text{Sn}$. Furthermore, (d,p) experiments with the ISOLDE Solenoidal Spectrometer (ISS) to examine the evolution of single-particle states in $^{107,109,111}\text{Sn}$ are planned. Preliminary results and expected outcomes will be presented.

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