

Coupling of Λ to Phonon Excitations of Nuclear Core

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We discuss calculations of hypernuclear energy spectra calculated within a beyond mean-field approach. The hypernuclear mean field is obtained from the realistic chiral baryon forces by the Hartree-Fock method in the proton-neutron- Λ formalism. Then we couple the Λ particle to the phonon excitations of the nuclear core. We analyze the sensitivity of hypernuclear energies on the Λ -N spin-orbit coupling.

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