

Coupling of Λ to the Atomic Nucleus

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We discuss the coupling of the Λ particle to the atomic nucleus in the mean-field approximation. The mean field is constructed by the Hartree-Fock (HF) method. We develop a formalism of the HF method including the three-body NNN and Λ NN interactions. The HF basis is used as a starting point for the Tamm-Dancoff Approximation (TDA). We present a generalization of the TDA that couples Λ to nucleon - N Λ TDA.

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