乞掲示

理化学研究所原子核グループコロキウム　*2001. 11. 13*

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題目：　Towards better understanging of nuclear pairing and its interplay with other residual interactions.

∗ The seminar will be given in *English.*

日時：　2001年　11月　13日 (Tue.)　15:00 –

場所：　RIKEN Main Bldg. 3F Seminar Room

Abstract

Nuclear pairing plays a major role in determining the state of a nuclear many-body system. The standard BCS approach in application to finite nuclei suffers from serious shortcomings. I present an exact treatment of pairing (EP algorithm) which is free of those problems and enables one to study the ground state properties of nuclear systems, fluctuating pair vibrations and chaotic effects of other residual interactions. With the use of the exact EP treatment, new approaches to the whole many-body problem are suggested (EP+ monopole interaction and Hartree-Fock + EP). With these methods we investigate Sn isotopes looking at the properties of low-lying states and effects of nucleon-nucleon residual interactions and comparing the results with experimental data. Using a simple model I also present a study of the interplay between pairing and other residual interactions.

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