乞掲示

理化学研究所原子核グループコロキウム　*2003. 10. 30*

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題目 ： Searching for the origin of spin zero ground states of atomic nuclei

∗ The seminar will be given in *English.*

日時 ： 2003年 10月 30日 (Thu.)　13:30 –

場所 ： RIKEN Main Bldg. 1F Seminar Room

Abstract

The ground state spins of even-even nuclei are always 0 without any exceptions, which is believed to be a consequence of the attractive short-range interaction. However, it was recently discovered that spin 0 ground state (0 g.s.) dominance can be found in many-body systems with random interactions. It was shown furthermore that there exists a large gap in the spin 0 g.s. cases in the presence of random interactions, which indicates a reminiscence of the generalized seniority. Some collective modes are observed to be dominantly favorable in the sd boson space.
I would like to explain the present status of studying the origin of spin zero dominance in the ground states in the presence of random interactions. I shall try to avoid any mathematics to make my seminar easily understandable to experimentalists.

∗ Host researcher : A. Kohama (RIKEN)

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