乞掲示

理化学研究所原子核グループコロキウム　*2003. 7. 24*

講師 ： **Prof. Ikuko Hamamoto**

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題目 ： Shell-structure and pair-correlation in nuclei close to the neutron drip line

∗ The seminar will be given in *English.*

日時 ： 2003年 7月 24日 (Thu.)　14:30 –

場所 ： RIKEN Main Bldg. 2F Seminar Room

Abstract

First, the properties of one-particle orbits of neutrons in nuclei close to the neutron drip line are briefly examined both for weakly bound neutrons and neutrons in the continuum. The low-lying states in the continuum, which lie close to the Fermi level, are of immediate importance for pair correlation and deformations of those nuclei. Then, the Hartree-Fock-Bogoliubov (HFB) equation in a simplified model is solved in coordinate space with the correct asymptotic boundary conditions, in order to provide quantitative characterization of both the role of weakly bound neutrons and the effect of continuum resonances on pairing correlations.

∗ Host researcher : A. Kohama (RIKEN)

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