乞掲示

理化学研究所原子核グループコロキウム　*2003. 5. 14*

講師 ： **Dr. Christoph Hermann Fransen**
(Cologne Univ.)

題目 ： Nuclear Multiphonon Structures with Mixed Proton-Neutron Symmetry

∗ The seminar will be given in *English.*

日時 ： 2003年 5月 14日 (Wed.)　14:00 –

場所 ： RIKEN Main Bldg. 1F Seminar Room

Abstract

The fast progress in the development of new accelerators for intense radioactive beams resulted in an enhanced interest in exotic nuclei with extreme ratios of protons and neutrons. Therefore, the investigation of the proton-neutron degree of freedom of nuclear states is of special interest. This degree of freedom is characterized by the nuclear isospin. The isovector character of electromagnetic dipole transitions makes them a sensitive signature for differences in the proton/neutron contribution to the wave functions of the corresponding nuclear states both in stable and in exotic nuclei. Especially, the study of isovector excitations of the valence space, so-called mixed-symmetry states, gives fundamental information about the proton-neutron degree of freedom.
I will give an overview about our newest results on proton-neutron mixed-symmetry states in heavy nuclei and discuss the experimental data in relation to predictions in the interacting boson model and in the spherical shell model.

∗ Host researcher : N. Shimizu (RIKEN)

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セミナー係
RIBF　関口 仁子　峯村 俊行

セミナー係連絡先
(email)　seminar@rarfaxp.riken.go.jp
(FAX)　048–461–5301
(WWW)　http://rarfaxp.riken.go.jp/~seminar/