



独立行政法人理化学研究所 仁科加速器研究センター

第98回RIBF核物理セミナー

RIKEN Nishina Center for Accelerator Based Science

The 98th RIBF Nuclear Physics Seminar

Skyrme density-functional approach to excitation modes in deformed
neutron-rich nuclei

Dr. Kenichi Yoshida (Theoretical Nuclear Physics Laboratory)

We have developed a new framework of the linear response calculations for deformed neutron-rich nuclei based on nuclear density-functional theory. We present the moments of inertia of ^{34}Mg and ^{36}Mg using the Thouless-Valatin procedure, and show the applicability of our new calculation scheme not only for the vibrational modes but also for the rotational modes in neutron-rich nuclei. Coupling effects between the pairing and vibrational modes of neutrons are also discussed.

Apr. 13(Tue), 2010 13:30-
RIBF Conf. Hall, RIKEN

The seminar will be given in English.

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