乞掲示

理化学研究所原子核グループコロキウム　*2002. 2. 22*

講師：　**Prof. Umesh Garg**

(University of Notre Dame, USA)

題目：　Compressional-mode Giant Resonances and the Nuclear Incompressibility

∗ The seminar will be given in *English.*

日時：　2002年 2月 22日 (Fri.)　15:00 –

場所：　RIKEN Main Bldg. 2F Seminar Room

Abstract

Nuclear Incompressibility is a key component of the nuclear equation of state, with crucial implications on our understanding of diverse nuclear and astrophysical phenomema such as stellar formation, supernova explosions, and collective flow in heavy-ion collisions. The only direct experimental measurements of nuclear incompressibility come from the compressional-mode giant resonances: the Giant Monopole Resonance and the *Isoscalar* Giant Dipole Resonance (ISGDR). In this talk, the current status of experimental work on the ISGDR, an exotic mode of nuclear oscillation, will be reviewd. Results from recent measurements at RCNP, using small-angle inelastic scattering of 400 MeV α particles, will be presented and the implications on determination of nuclear incompressibility will be discussed.

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