



独立行政法人 理化学研究所

原子核グループ

第 1 回 RIBF 核物理セミナー

RIKEN Nuclear Physics Group

The 1st RIBF Nuclear Physics Seminar

Neutron number dependence of strength functions and compressibility

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Abstract

I recently performed calculations of strength functions of the isoscalar and isovector 0^+ , 1^- , and 2^+ modes of even Ca, Ni, and Sn isotopes from the proton drip line to the neutron drip line using the quasiparticle random-phase approximation with the Skyrme and delta pairing interactions. A common feature in any modes is an enhancement of low-energy strength near the neutron drip line, and the most significant one is the isoscalar 1^- mode. I show compression modulus of the symmetric nuclear matter as an example of application of the strength functions.

The seminar will be given in English.

Oct. 26 (Wed.), 2005 13:30-
Nishina Hall, Wako

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