



独立行政法人理化学研究所 仁科加速器研究センター

第41回RIBF核物理セミナー

RIKEN Nishina Center for Accelerator Based Science

The 41st RIBF Nuclear Physics Seminar

Beta-decay studies and low-energy nuclear structure near Ca-48

Prof. Paul Mantica
(NSCL, Michigan State University)

Measurements of the low-energy states of even- and odd-A nuclides above Ca-48 have provided evidence for a strong proton-neutron monopole interaction between spin-orbit partner orbitals proton $f_{7/2}$ and neutron $f_{5/2}$. I will discuss the results of beta decay measurements at the NSCL to explore this monopole shift that gives rise to new shell gaps in the neutron-rich Ca, Ti, and Cr isotopes.

Jan. 16(Tue), 2006 10:30-
Nishina Hall, RIKEN

The seminar will be given in English.

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