



RIKEN
NISHINA
CENTER

理化学研究所 仁科加速器研究センター
原子核物理学連続講義 コース VI-1

RIKEN Nishina Center for Accelerator Based Science
Lecture Series on Nuclear Physics Course VI - 1

**"Physics with Slow-/Trapped-RI Beams
-- Methods, Current Researches, and Perspectives--"**

Prof. Juha Aysto (University of Jyväskylä)

Topics

"Physics with Slow-/Trapped-RI Beams -- Methods, Current Researches, and Perspectives--"

- 0) Introduction to RIB physics using slow-/trapped-RI beams
- 1) Methods to produce slow RI beams based on of ISOL/IGISOL techniques
- 2) Manipulation of radioactive ions by trapping and optical pumping
- 3) Novel uses of Penning traps in nuclear structure physics/masses and decay spectroscopy
- 4) Optical spectroscopy on nuclear ground states for charge radii and moments / new developments
- 5) Precision measurements of beta and double-beta decay Q-values for weak interaction tests
- 6) Introduction to REX-ISOLDE concept and overview of (future) European projects

This lecture will be held as a part of Workshop on "Advance in Physics with ISOL-based/Fragmentation-based RI Beams"

Date : Feb. 20(Wed)-21(Thu), 2008
Place : Lecture Room H1 11, Oh-okayama Campus,
Tokyo Institute of Technology

2/20(Wed) 13:00-14:30 Lecture 1
 15:00-17:00 Lecture 2
2/21(Thu) 9:30-11:00 Lecture 3

This Lecture will be given in English

Contact:

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