



東京大学・銀杏プロジェクト / 独立行政法人理化学研究所 原子核グループ 共催  
第14回RIBF核物理セミナー  
U. Tokyo ICHOR Project / RIKEN Nuclear Physics Group  
The 14th RIBF Nuclear Physics Seminar

## An Introduction to the Ion-Optics of Magnet Spectrometers

Dr. Georg Berg  
(Univ. of Notre Dame, USA)

Since the advent of charged particles as probes to study atomic nuclei, ion-optical devices have played an increasingly important role in Experimental Nuclear Physics research. While the accelerator physicist will often provide the required beam, it is usually crucial for an experiment that the nuclear physicist understands and operates - and often designs - the electro-magnetic beam line and analysis instruments for his or her experiment.

This lectures series introduces physicists to the concepts, tools and codes used in the optics of ions to understand, operate and design beam lines, high resolution spectrometers like SHARAQ and other advanced electro-magnetic systems like separators.

Lecture 1: Formalism and ion-optical elements

Lecture 2: Ion-optical systems and diagnostics

Lecture 3: Experiments with dispersion matched high resolution spectrometers.

Feb. 27 (Mon), 2006  
CNS 3F Room 301

Lecture 1: 10:30-11:30

Lecture 2: 13:30-14:30

Lecture 3: 15:00-16:00

*The seminar will be given in English*

Contact: RIBF Nuclear Physics Seminar Organizer  
[seminar@rarf.riken.jp](mailto:seminar@rarf.riken.jp)  
<http://rarfaxp.riken.jp/~seminar>