



独立行政法人理化学研究所 仁科加速器研究センター
第88回RIBF核物理セミナー

RIKEN Nishina Center for Accelerator Based Science
The 88th RIBF Nuclear Physics Seminar

Present and Future Experiments with Exotic Nuclei at GSI

Prof. Hans Geissel (GSI)

GSI is a heavy-ion research laboratory based on complex accelerator facilities ranging from the Coulomb barrier up to 90 % light velocity for all elements. Exotic nuclei are short-lived species far from the valley of stability characterized by new structural and decay properties. Exotic nuclei are produced at GSI with fusion, projectile fragmentation, and projectile fission reactions. A main scientific goal is to contribute to the understanding of nuclear structure and nuclear astrophysics. Nuclear physics and chemical methods have been applied to explore the heaviest elements, the nuclides near the driplines and astrophysical paths for the element synthesis in the stars. Experiments with stored highly-charged ions at relativistic energies reveal new decay properties. High-resolution studies have been carried out by applying novel experimental techniques. Besides the current experimental program also future plans are discussed. This presentation will give introductory explanations well suited for students and newcomers in the field.

Nov. 26(Thu), 2009 13:30 -
RIBF Conf. Room, RIKEN

The seminar will be given in English.

*Contact: RIBF Nuclear Physics Seminar Organizer
seminar@ribf.riken.jp
<http://ribf.riken.jp/~seminar>*