



独立行政法人理化学研究所 仁科加速器研究センター
第63回RIBF核物理セミナー

RIKEN Nishina Center for Accelerator Based Science
The 63rd RIBF Nuclear Physics Seminar

Probing nuclear structure far-off stability with RISING
- Gamma-ray spectroscopy with Radioactive Beams at GSI

Dr. Pieter Doornenbal (RIKEN Nishina Center)

The Rare Isotope Spectroscopic INvestigation at GSI (RISING) project is a major pan-European collaboration. Its physics aims are the studies of exotic nuclear matter with abnormal proton-to-neutron ratios compared with naturally occurring isotopes. RISING combines the FRagment Separator (FRS), which allows relativistic energies and projectile fragmentation reactions, with EUROBALL Ge Cluster detectors for gamma-spectroscopic research. The RISING setup can be used in two different configurations. Either the nuclei of interest are investigated after being stopped in delayed gamma-ray spectroscopy or the heavy ions hit a secondary target at relativistic energies and the thereby occurring excitations are studied. For the latter case, MINIBALL Ge detectors and the HECTOR BaF₂ array are used in addition. Example achievements of both configurations are presented and their physical impact discussed.

Jun. 24 (Tue), 2008 15:00-
RIBF Conf. Hall, RIKEN

The seminar will be given in English

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