

# つくば不安定核セミナー

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場所：筑波大学総合研究B棟0110公開講義室

## 講演題目

# Nuclear Physics and Astrophysics Research conducted with Heavy-Ion Storage Rings

## 概要

Heavy-ion storage rings coupled to radioactive ion beam facilities offer unique capabilities for nuclear physics experiments. There are presently two operational facilities, namely the Experimental Storage Ring (ESR) at GSI in Darmstadt, Germany and the experimental Cooler-Storage Ring (CSRc) at IMP in Lanzhou, P. R. China, at which several research programs are being pursued. Well-established are direct mass measurements of short-lived nuclei. Research programs at storage rings have proven their high discovery potential, which is clearly indicated by a number of new storage ring projects started around the world: TSR@ISOLDE at CERN, CRYRING@ESR at GSI, Rare RI RING in RIKEN as well as new storage ring complexes at FAIR in Germany and at HIAF in China. In this presentation a review will be given on the present nuclear physics research programs at storage rings. Examples of recent results will be presented as well as future perspectives will be discussed. Furthermore, plans for new storage ring projects will be outlined.

\* 総合研究B棟の位置は次のURLでご確認ください。 [http://www.tsukuba.ac.jp/access/map\\_central.html](http://www.tsukuba.ac.jp/access/map_central.html)

\* 車でご来場の場合は、入構手続き、駐車場など次のURLを参照してください。 <http://www.t-anzen.org/>



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