

# 第512回基礎科学セミナー

日時：4月18日（木） 15:00～16:30

場所：先端基礎研究交流棟1階 第1会議室

講演者：安岡 弘志 博士

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演題：The microscopic Study of Actinide  
compounds by Nuclear Magnetic Resonance  
(核磁気共鳴法によるアクチノイド化合物の微視的物性の研究)

----To commemorate receiving the prize given by the Minister of MEXT for  
Science and Technology---

An active research effort in the area of actinide sciences in Advanced Science Research Center (ASRC) begun immediately after the ASRC was established in 1994. Since then, scientists in ASRC keep creating new materials and physics that are well recognized in the society world widely. Nowadays, actinide research in ASRC has matured to one of the COE in this field.

In the first part of this lecture, I will overview the research stream in the physics and chemistry of actinide compounds, focusing on the underline physics of heavy electron properties (formation and condensation). It is a hope that I will be able to prospect a new trend for the actinides sciences.

The second part will be devoted to introduce recent NMR/NQR works at LANL. Here, I will focus on the studies of Pu based superconductors and oxides. This is an extended study of the first observation of  $^{239}\text{Pu}$  NMR in  $\text{PuO}_2$ .

<問い合わせ先>  
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