

# 第14回 TRIAC セミナーのご案内

第14回 TRIAC セミナーを以下の要領で開催致します。奮って御参加下さい。

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**講演題目** Status of the SPES production target  
**講演者** Dr. Alberto Andrichetto (LNL, INFN)  
**日時** 2008 年 12 月 17 日 (水) 10:00 ~ 12:00  
**場所** 日本原子力研究開発機構  
タンデム加速器 2 階 会議室

## 講演要旨

The SPES project at Laboratori di Legnaro of INFN (Italy) is concentrating on the production of neutron-rich radioactive nuclei by the Uranium fission at a rate of  $10^{13}$  fission/s. The Radioactive Ion Beam (RIB) will be produced by ISOL technique using the proton induced fission on a Direct Target of UCx.

The most critical element of the SPES project is the multi-foil direct target. Up to day the proposed target represents an innovation in term of capability to sustain the primary beam power. The design is carefully oriented to optimize the radiative cooling taking advantage of the high operating temperature of 2000°C. The thermal and thermo-mechanical analysis of the proposed configuration shows the capability of the thermal radiation to cool the disks with a reasonable margin below the material melting point. The simulations and some test in laboratory show that SPES multi-foil direct target presents a good isotope extraction behavior up to intermediate masses.

The experimental study of the (1:5) prototype of the SPES Direct target, using SiC pellets, is performed in collaboration with HRIBF target group of the Oak Ridge National Laboratory.

\* 講演は英語で行なわれます。

## 連絡先

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