

## 第5回 TRIAC セミナーのご案内

第5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。

高エネルギー加速器研究機構  
素粒子原子核研究所物理第四研究系  
宮武 宇也 (029-284-3828)

**講演題目** Radioactive Nuclear beams at LNL  
**講演者** Prof. Cosimo Signorini (INFN)  
**日時** 2007年6月7日(木) 14:00 ~ 16:00  
**場所** 日本原子力研究開発機構  
先端基礎交流棟1階 第1センター会議室

### 講演要旨

Activity on RNB has started at LNL with the full commissioning of a line for the production in flight of RNB. At present we have produced  $^{17}\text{F}$  with a record intensity of 3 to 4  $10^6$  Hz, and  $^8\text{B}$  with  $3 \times 10^3$  Hz, this last in a test run. We expect for  $^8\text{B}$  around  $10^4$  Hz. The first experiment was the elastic scattering and BU of  $^{17}\text{F}$  by  $^{208}\text{Pb}$  below the barrier. Both reaction cross sections and exclusive BU are small. This is at difference with n-weakly bound nuclei like  $^{11}\text{Be}$  investigated together with the Japanese collaboration (KEK,RIKEN) at RIPS-RIKEN. A new project is a planing phase at LNL for RNB called SPES. It is based onto 0.1 mA, 40 MeV proton beam and a THIN target approach. The expectations are quite promising from the simulations and first tests at ORNL (USA). By this year Italian INFN is expected to take an operationg decision since a good amount of funding is at disposition.

\* 講演は英語で行なわれます。

### 連絡先

高エネルギー加速器研究機構 東海キャンパス  
今井 伸明 (nobuaki.imai@kek.jp)  
TEL/FAX:029-284-4863/4868