



東工大 基礎・物性物理学専攻「物理学リーダーシップ」
FGIP : Foreign Graduate Student Invitation Program
外国人博士課程大学院生の短期招待・共同研究
FGIP-Student Forum セミナー

Sylvain Leblond

(University of Caen Lower Normandy, France)

日時: 2013年3月5日 (水) 17:30~18:30

場所: 本館 H155B

Structure of the heaviest Boron and Carbon isotope $^{18,19}\text{B}$ and $^{21,22}\text{C}$



Abstract:

The investigation of neutron-rich dripline nuclei, including in particular those exhibiting haloes, is a central theme of present day nuclear structure physics. These studies have, however, been limited for the most part to the He, Li and Be isotopes. With the advent of the RIKEN RIBF and intense energetic beams of ^{48}Ca , the way is now open to explore the structure of heavier neutron dripline nuclei. In this talk will be described investigations of the structure of the two heaviest candidate two-neutron halo systems, ^{19}B and ^{22}C , and the associated unbound sub-systems ^{18}B and ^{21}C .

The measurements were carried out as part of the first phase of experiments employing the newly commissioned SAMURAI spectrometer and the NEBULA neutron array. Following a introduction to experimental and analysis techniques, the results for the invariant mass spectroscopy of $^{18,19}\text{B}$ and $^{21,22}\text{C}$ will be presented.

教員、修士課程大学院生の参加も歓迎します。 担当 佐藤 智哉 (内線 2716)

FGIP-Guest studentの滞在スケジュール

名前	大学	滞在期間	受入担当氏名
Sylvain Leblond	University of Caen Lower Normandy (フランス)	2/26 - 3/14	佐藤 智哉