

## CONFERENCES, SYMPOSIUMS, WORKSHOPS and COLLOQUIA

### 1. The 4th International Symposium on Neutrinos and Dark Matter in Nuclear Physics (NDM12)

June 11-15th, 2012, Nara, Japan

#### Organizers:

Hiro Ejiri(RCNP)  
Toshitaka Kajino(NAOJ / University of Tokyo)  
Kenichi Fushimi(University of Tokushima)  
Wako Aoki(NAOJ)  
Ryuta Hazama(Hiroshima University)  
Kunio Inoue(Tohoku University)  
Tatsushi Shima(RCNP)  
Toshio Suzuki(Nihon University)

#### Subjects to be discussed include:

- A. Solar, supernova and astrophysical neutrinos and their interactions with nuclei, and nucleosynthesis
- B. Neutrinos in  $\beta$  and  $\beta\beta$  decays and nuclear matrix elements
- C. Nuclear reactions and scatterings, and photon and lepton probes for nuclear weak/neutrino responses
- D. Cosmological neutrinos and cosmic large scale structure
- E. Dark matter search and dark matter interactions with nuclei
- F. Dark matter in the universe and structure formation
- G. Related subjects

Related links

### 2. Resonance phenomena and reaction dynamics near the threshold of nuclei

July 18-20, 2012, Osaka University, RCNP, Japan

#### Organizers:

Y. Kikuchi (RCNP)  
T. Myo (Osaka Institute of Technology)  
M. Ito (Kansai University)  
M. Kimura (Hokkaido University)  
Y. Funaki (RIKEN)  
K. Ogata (RCNP)  
T. Kawabata (Kyoto University)  
H. Otsu (RIKEN)

Please refer to

### **3.The 20th International IUPAP Conference on Few-Body Problems in Physics (FB20)**

August 20-25, 2012 in Fukuoka, Japan

#### **Organizers:**

K. Sagara (Kyushu University) chair  
S. Ishikawa (Hosei University) vice chair  
H. Kamada (Kyushu Institute of Technology) vice chair  
E. Hiyama (RIKEN) scientific secretary  
A. Tamii (RCNP) scientific secretary  
K. Harada (Kyushu University)  
Y. Maeda (Miyazaki University)  
T. Wakasa (Kyushu University)  
M. Yahiro (Kyushu University)

#### **Description:**

The conference will cover the following topics from both experimental and theoretical sides.

- QCD in Few-Body Systems
- Hadron Structure
- Few-Hadron Systems and Their Interactions
- Strange and Exotic Systems
- Few-Nucleon Systems and Their Interactions
- Light Nuclei: Structure and Reaction
- Effective Field Theory
- Relativistic Aspects of Few-Body Systems
- Atom-Molecular Systems and Cold Atoms
- Nuclear Astrophysics
- Methods in Few-Body Systems
- Other Related Topics

Related links

#### 4. RCNP 加速器増強と核破碎反応中性子利用

September 28-29, 2012

RCNP, Osaka University, Japan

##### **Organizers:**

Koji Nakai(KEK / Osaka University)

Norindo Takahashi(Osaka University)

Jun Hatazawa(Osaka University)

Mitsuhiro Fuuda(RCNP)

Kichiji Hatanaka(RCNP)

Keiji Takahisa(RCNP)

Ryouhei Matsumiya(RCNP)

Yasuhiro Masuda(KEK)

Satoru Yamashita(Tokyo University)

Akira Sato(Osaka University)

Related links

#### 5. Collective Motion in Nuclei under Extreme Conditions (COMEX4)

October 22-26, 2012

Shonan Village Center, in Kanagawa, Japan

##### **Organizers:**

Y. Fujita (RCNP, Osaka University)

S. Shimoura (CNS, Tokyo University)

N. Aoi (RCNP, Osaka University)

T. Nakamura (Tokyo Institute of Technology)

A. Tamii (RCNP, Osaka University)

K. Yako (CNS, Tokyo University)

M. Yamagami (Aizu University)

H. Otsu (RIKEN)

S. Ota (CNS, Tokyo University)

##### **Description:**

The COMEX conferences are a continuation of the long series of topical conferences on Giant Resonances, started in 1979. Following the previous COMEX conferences, COMEX1, held in Paris, France in 2003, COMEX2, held in Sankt Goar, Germany in 2006 and COMEX3, held on Mackinac Island, Michigan in 2009, the scope of COMEX4 includes the related topics of collective excitations in stable and unstable nuclei. Decay studies from highly excited states, cluster and exotic shapes of nuclei, and applications in astrophysics are also the scope of this conference.

Related links

## 6.Hadron Structure and Interactions in 2012

November 16-17, 2012, RCNP, Osaka University, Japan

### Organizers:

Atsushi Hosaka(RCNP,Osaka University)  
Takayuki Matsuki(Tokyo Kasei University)  
Yusuke Namekawa(University of Tsukuba, Center for Comp. Sci.)  
Makoto Oka(Tokyo Institute of Technology)  
Koichi Seo(Gifu City Women's College)  
Kazutaka Sudoh(Nishogakusha University)  
Kenji Yamada(Nihon University)  
Shigehiro Yasui(KEK Theory Center)

Related links

## 7.RCNP International Workshop on Physics Opportunities using Compton Suppressed Ge Clover Array (Clover12)

December 7-8, 2012, RCNP, Osaka University, Japan

### Organizers:

Eiji Ideguchi(RCNP)  
M.P. Carpenter(ANL)  
V. Werner(Yale)  
P. Fallon(LBNL)  
N. Aoi (RCNP)  
S. Shimoura (CNS, Tokyo University)  
H. Sakurai(RIKEN)  
Atsuko Odahara(Osaka University)  
Takeshi Koike(Tohoku University)  
Toshiyuki Sumikama(Tohoku University)  
Tomokazu Suzuki(RCNP)

### Description:

A project to construct a Compton-suppressed Ge Clover array by combining the Clover Ge detectors in Japan and the U.S. is proposed to study in detail excited states in exotic nuclei produced at the RIBF facility in RIKEN. This project is one of activities of SUNFLOWER collaboration. This array will be suited for studies utilizing energy-degraded RI beams (Ebeam $\sim$ 5AMeV) and also stopped RI beams.

Before starting experiments using the Clover array at RIBF, commissioning runs and physics runs are planned at RCNP, Osaka University to check entire system and also output physics results. At RCNP, there is a world unique high-resolution spectrometer, Grand Raiden and also low-energy RI beam line, EN course. Combination of the array with these facilities will also provide unique physics opportunities.

The purpose of the workshop is to discuss physics cases and technical issues using Compton Suppressed Ge Clover Array at RCNP and RIBF. It is hoped that the symposium will encourage international cooperation and stimulate physicists in the field of nuclear structure studies.

Related links