# Halo2010 Symposium

**Monday 06 December 2010 - Thursday 09 December 2010**

**Shonan Village Center**

# Programme

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# Monday 06 December 2010

## Reception - Auditrium (06 December 18:00-20:00)

# Tuesday 07 December 2010

**Welcome - Auditrium (09:00-09:10)**

- **Speakers: Prof. SHIMOURA, S.**

**Nucleon Density Distributions of Unstable Nuclei Studied via Reaction Cross Sections - Auditrium (09:10-09:40)**

- **Speakers: Dr. FUKUDA, M.**

**Measurements of total reaction cross section, momentum distribution and proton correlation for the 23Al and neighboring nuclei - Auditrium (09:40-10:10)**

- **Speakers: Prof. MA, Y.G.**

**Laser Trapping and Probing of He-6 and He-8 - Auditrium (10:10-10:40)**

- **Speakers: Dr. MUELLER, P.**

**Break - Auditrium (07 December 10:40-11:10)**

**Exploring neutron-rich nuclear structures through beta-delayed decay of spin-polarized isotopes - Auditrium (11:10-11:40)**

- **Speakers: Prof. SHIMODA, T.**

**Isobaric analog states of neutron rich nuclei - Auditrium (11:40-12:10)**

- **Speakers: Prof. TERANISHI, T.**

**(p,n) reaction as a tool for extracting Gamow-Teller strengths in unstable nuclei - Auditrium (12:10-12:40)**

- **Speakers: Prof. SATOU, Y.**

**Lunch - Auditrium (07 December 12:40-14:20)**

**Reaction Theory for Rare Isotopes - Auditrium (14:20-14:50)**

- **Speakers: Prof. BERTULANI, C.A.**

**Studies of very neutron-rich nuclei at GANIL/SPIRAL - Auditrium (14:50-15:20)**

- **Speakers: Dr. BEAUMEL, D.**

**Two-particle correlations in continuum dipole transitions in Borromean nuclei - Auditrium (15:20-15:50)**

- **Speakers: Dr. HAGINO, K.**

**Break - Auditrium (07 December 15:50-16:20)**

**Collisions around the Coulomb barrier induced by halo nuclei: some recent experimental results - Auditrium (16:20-16:50)**

**- Speakers: Dr. FIGUERA, P.**

## Dynamical role of halo nucleons in nuclear reactions - Auditrium (16:50-17:20)

**- Speakers: Prof. YABANA, K.**

## Interaction cross sections and the Glauber model - Auditrium (17:20-17:40)

**- Speakers: Dr. KOHAMA, A.**

## Neutron halo in deformed nuclei from a relativistic Hartree-Bogoliubov model - Auditrium (17:40-18:00)

**- Speakers: Prof. ZHOU, S.G.**

## Poster Session - Auditrium (07 December 19:00-21:00)

| time | [id] title | presenter |
|---|---|---|
| 19:00 | [40] Enhancement in $^{6}$He+$^{64}$Zn fusion cross-section at energies below the barrier: static or dynamic effects? | Dr. SCUDERI, Valentina |
| 19:10 | [41] Measurement of reaction cross section for 11Li using the solid hydrogen target | MORIGUCHI, Tetsuaki |
| 19:20 | [44] Neutron Density Distributions of Nickel Isotopes Analyzed in Terms of Relativistic Impulse Approximation | KAKI, Kaori |
| 19:30 | [45] The study of the unstable nuclei by means of the heavy ion double charge exchange reaction | Dr. TAKAHISA, Keiji |
| 19:40 | [47] $Sp(2,R)_z$ structure and monopole strength in $^{12}$C | Dr. YOSHIDA, tooru |
| 19:50 | [48] Inclusive Coulomb and nuclear breakup of 31Ne and 22C | Mr. KOBAYASHI, Nobuyuki |
| 20:00 | [49] Study of N = 14 shell gap in nuclei around 20C | Mr. YUAN, Cenxi |
| 20:10 | [50] Spectroscopy of 9He via the (18O,18Ne) reaction by high resolution spectrograph Grand Raiden at RCNP | Dr. MATSUBARA, hiroaki |

# Wednesday 08 December 2010

**Structure of unstable nuclei revealed through nuclear moments - Auditrium (09:00-09:30)**

- Speakers: Prof. MATSUTA, K.

**Direct mass measurements of He, Li, and Be-halo nuclei - Auditrium (09:30-10:00)**

- Speakers: Prof. DILLING, J.

**Halos in Covariant Density Functional Theory - Auditrium (10:00-10:30)**

- Speakers: Prof. MENG, J.

**Break - Auditrium (08 December 10:30-11:00)**

**Theoretical studies of reactions with drip-line nuclei - Auditrium (11:00-11:30)**

- Speakers: Dr. ESBENSEN, H.

**Neutron halo; what we have learned and what we want to learn - Auditrium (11:30-12:30)**

- Speakers: Prof. TANIHATA, I.

**Group Photo/Lunch - Auditrium (08 December 12:30-14:30)**

**Very exotic light nuclear system - from R3B/LAND towards R3B/FAIR - Auditrium (14:30-15:00)**

- Speakers: Dr. SIMON, H.

**Observation of neutron halos in the excited states of nuclei - Auditrium (15:00-15:30)**

- Speakers: Prof. OGLOBLIN, A.A.

**Invariant-mass spectroscopy of unbound states via the breakup reactions of the neutron dripline nucleus 14Be - Auditrium (15:30-16:00)**

- Speakers: Dr. KONDO, Y.

**Break - Auditrium (08 December 16:00-16:30)**

**Beta Decays and Isobaric Analog States of Exotic Light Nuclei - Auditrium (16:30-17:00)**

- Speakers: Prof. SUZUKI, T.

**A Unified Description of Bound and Unbound States - Auditrium (17:00-17:30)**

- Speakers: Prof. KATO, K.

**Roles of tensor and pairing correlations in neutron drip-line nuclei - Auditrium (17:30-18:00)**

- Speakers: Dr. MYO, T.

**Banquet - Auditrium (08 December 18:30-20:30)**

# Thursday 09 December 2010

**Vector analyzing power measurement for proton elastic scattering from neutron-rich helium isotopes - Auditrium (09:00-09:30)**

- **Speakers: Dr. SAKAGUCHI, S.**

**Electro-production of neutron rich hypernuclei - Auditrium (09:30-10:00)**

- **Speakers: Prof. NAKAMURA, S.N.**

**Halo nuclei and shell evolution by nuclear forces - Auditrium (10:00-10:30)**

- **Speakers: Prof. OTSUKA, T.**

**Break - Auditrium (09 December 10:30-11:00)**

**Pairing correlations in low-density neutron matter and unitary Fermi gas from lattice EFT calculations - Auditrium (11:00-11:30)**

- **Speakers: Dr. ABE, T.**

**Coulomb breakup and soft E1 excitation of halo nuclei - Auditrium (11:30-12:00)**

- **Speakers: Prof. NAKAMURA, T.**

**The dipole response of neutron-halo and neutron-skin nuclei - Auditrium (12:00-12:30)**

- **Speakers: Prof. AUMANN, T.**

**Closing - Auditrium (12:30-12:40)**