

# Kyoto Spring Workshop on Nuclear Clustering

Dept. of Physics, Kyoto Univ. (Lecture Room No.1 ,Third floor)

24, 25 April, 2003

## 24 April (Thursday)

[Chairperson: K. Kato (Hokkaido)]

10:00—10:05 Opening H. Horiuchi (Kyoto)

10:05—10:35 (25+5) Y. Fujiwara (Kyoto)

Solving 3-Cluster OCM in the Faddeev Formalism

10:35—11:05 (25+5) A. Dote (KEK)

Systematic Studies of Strange Nuclear Systems: Unusual Structures Formed by a K-Meson

11:05—11:30 *Break*

[Chairperson: K. Ikeda (RIKEN)]

11:30—12:10 (35+5) D. Brink (Oxford)

Clustering in the Shell Model

12:10—12:40 (25+5) M. Kimura (RIKEN)

$^{16}\text{O} + ^{16}\text{O}$  Nature of the Superdeformed Band of  $^{32}\text{S}$  and the Evolution of the Molecular Structure

12:40—14:30 *Lunch*

[Chairperson: Y. Fujiwara (Kyoto)]

14:30—15:00 (25+5) Y. Kanada-En'yo (KEK)

Deformation and Molecular Resonances in  $^{28}\text{Si}$

15:00—15:30 (25+5) K. Kato (Hokkaido)

Structures of Continuum States in Halo Nuclei

15:30—16:00 (25+5) S. Aoyama (Kitami)

Systematic Studies of Light Neutron-Rich Nuclei with AMD-SSS

16:00—16:30 *Break*

[Chairperson: H. Horiuchi (Kyoto)]

16:30—17:00 (25+5) K. Ikeda (RIKEN)

Charge-Parity Projected Hartree-Fock Theory and Alpha-Clustering

17:00—17:30 (25+5) S. Sugimoto (RIKEN)

Mean Field Model with the Pion for Finite Nuclei

17:30—18:00 (25+5) T. Myo (RCNP)

Pairing and Tensor Correlations in  $^{10}\text{Li}$  and  $^{11}\text{Li}$   
18:30—20:30 **Party** ( Second Floor of COOP Building )

## **25 April (Friday)**

[Chairperson: K. Yabana (Tsukuba)]

9:30 —10:00 (25+5) Y. Funaki (Kyoto)

Alpha Cluster Condensation in  $^{12}\text{C}$

10:00—10:30 (25+5) A. Tohsaki (Shinshu)

Alpha Condensation in Light 4N Nuclei

10:30—11:00 *Break*

[Chairperson: Y. Kondo (Kyoto WU)]

11:00—11:30 (25+5) T. Yamada (Kanto-Gakuin)

Dilute Multi Alpha Cluster States in Nuclei

11:30—12:00 (25+5) H. Takemoto (Shinshu)

Clustering Phenomena of Nuclear Matter in Low Density

12:00—13:50 **Lunch**

[Chairperson: T. Yamada (Kanto-Gakuin)]

13:50—14:20 (25+5) H. Horiuchi (Kyoto)

Coexistence of Cluster States and Superdeformed States in  $^{44}\text{Ti}$

14:20—14:50 (25+5) N. Itagaki (Tokyo)

Exotic Clustering in Light Neutron-Rich Nuclei

14:50—15:20 *Break*

[Chairperson: A. Tohsaki (Shinshu)]

15:20—15:50 (25+5) H. Ohta (Tsukuba)

Skyrme-Hartree-Fock Calculation of Light Nuclei with Parity and Angular Momentum Projection

15:50—16:20 (25+5) K. Yabana (Tsukuba)

Time-Dependent Wave-Packet Approach for Low-Energy Reactions of Halo Nuclei

16:20—16:40 Concluding Remarks D. Brink (Oxford)