

International Workshop on the Theory of Dense Kondo Systems

March 19–20, 2013
Osaka University Nakanoshima Center

30 Years after the Yoshimori-Kasai Model and Beyond



RESEARCH INITIATIVE

March 19, 2013

Opening Remarks by Prof. Hideaki Kasai (13:00–13:05)

- 13:05 – 13:45 Prof. Nguyen Hoang Luong (Vietnam National University)
Nanotechnology Development and Application in Life Science
- 13:45 – 14:25 Dr. Emi Minamitani (RIKEN)
The Kondo Effect in Nanostructure on Surfaces – Importance of the Symmetry
- 14:25 – 15:05 Prof. Bach Thanh Cong (Vietnam National University)
Theory for the First Order Magnetization Process in some Colossal Magnetoresistance
- 15:05 – 15:45 Dr. Mary Clare Sison Escaño (University of Fukui)
Quantum Simulation and Design of Magnetic and Catalytic Materials for Energy Applications
- Coffee Break (15:45–16:00)
- 16:00 – 16:40 Dr. Yoshio Miura (Tohoku University)
A Theoretical Study on Electronic Structures and Spin-Dependent Transport Properties of Magnetic Tunnel Junctions
- 16:40 – 17:20 Dr. Daisuke Matsunaka (Osaka University)
A Theoretical Study of Impurity Effects on High-Tc Cuprate Superconductors and Diluted Magnetic Semiconductors
- 17:20 – 18:00 Kazuki Kojima (Osaka University)
Theoretical Study of the Structure and Magnetic Property in Co/Ni Multi-layer on W(110)

Banquet (18:00–20:00)

March 20, 2013

- 13:00 – 13:30 Nguyen Tien Quang (Osaka University)
Theoretical Investigation on NO Oxidation on Oxygen-precovered Pt₄/CeO₂
- 13:30 – 14:00 Abdulla Ali Abdulla Sarhan (Osaka University)
Effect of the Electron Density of States Variation on Transport through Adsorbates
- 14:00 – 14:30 Tran Linh Phan Thuy (Osaka University)
Oxygen Vacancy Migration in Alkaline-earth Doped Monoclinic Lanthanum Germanate

Coffee Break (14:30–14:45)

- 14:45 – 15:15 Nguyen Hoang Linh (Osaka University)
Density Functional Theory Based Analysis of Oxygen Adsorption on Anatase (001) Surface
- 15:15 – 15:45 Triati Dewi Kencana Wungu (Osaka University)
Theoretical Study on Lithium-montmorillonite

15:45 – 16:15 Yuji Kunisada (Osaka University)

Ortho-Para H₂ Conversion on Clean and Modified Surfaces

16:15 – 16:45 Prof. Hideaki Kasai (Osaka University)

Introduction of the Yoshimori-Kasai Model

Closing Remarks by Prof. Yoshitada Morikawa (16:45–16:50)



Moderators: Prof. Wilson Agerico Diño (Day 1) Chantaramolee Bhume (Day 2)