International Workshop on Quantum Design and Realization

February 27 - 28, 2012

Suita Campus, Osaka University

2-1 Yamadaoka, Suita, Osaka 565-0871, Japan

Organized by:

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February 27, 2012

Session A *Moderator: Allan Padama*

10:30 – 10:40 Openning address
Prof. Bach Thanh Cong
Dean, Faculty of Physics
Hanoi University of Science, Vietnam

10:40 – 11:10 Self-trapping states of hydrogen
Prof. Hidehiko Sugimoto
Chuo University, Japan

11:10 – 11:40 Hydrogen wave functions and its neutron scattering
Prof. Susumu Ikeda
High Energy Accelerator Research Organization, Japan

11:40 – 12:00 Hydrogen vibration on Ge and Si reconstructed surfaces
Abdulla Sarhan
Osaka University, Japan

12:00 – 13:30 Lunch break

Session B *Moderator: Nghiem Minh Hoa*

13:30 – 13:45 First-principles study of formation of carbon-contamined gold nanowires
Nguyen Duy Huy
Osaka University, Japan

13:45 – 14:00 The effect of magnetic anisotropy on spectral function in a magnetic atom on metal surface covered with insulator layer
Kazuki Kojima
Osaka University, Japan

14:00 – 14:15 Theoretical research on the effect of the substitution over the piezo-electric effect of Lead Zirconate Titanate
Kohei Oka
Osaka University, Japan

14:15 – 14:30 Electronic structure and magnetic properties of LaFeAsO
Nguyen Hoang Linh
Osaka University, Japan

14:30 – 14:45 Study on removal mechanism of Catalyst-Referred Etching on 4H-SiC (0001) surface
Bui Van Pho
Osaka University, Japan

14:45 – 15:00 La_2GeO_5-based oxide solid electrolyte
Tran Phan Thuy Linh
Osaka University, Japan

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Session C *Moderator: Nguyen Tien Quang*

15:30 – 15:50 Introduction on training and research of VNU Hanoi University of Science
Prof. Bui Duy Cam
Rector
Hanoi University of Science, Vietnam

15:50 – 16:20 Investigation on low dimensional perovskite systems
Prof. Bach Thanh Cong
Dean, Faculty of Physics
Hanoi University of Science, Vietnam

16:20 – 16:40 Electrochemical techniques for electrosynthesis and applications in fuel cell
Andrew Wang
The University of British Columbia, Canada

16:40 – 16:50 Initial borohydride adsorption mechanism on Pt(111) and Os(111)
Mary Clare Escano
Osaka University, Japan

16:50 – 17:00 Theoretical design of Au-based anode catalysts for direct borohydride fuel cell
Ryan Arevalo
Osaka University, Japan

17:00 – 17:15 The adsorption of water on Li-Montmorillonite: A density functional theory study
Triati Wungu
Osaka University, Japan

17:15 – 17:30 The effect of nitrogen coordination number on the O_2 adsorption properties on Co-N_x clusters: density functional theory study
Ganda Saputro
Osaka University, Japan

17:30 – 17:40 Closing remarks
Prof. Hiroshi Nakanishi
Osaka University, Japan

17:40 – 17:45 Picture taking

PLACES OF THE WORKSHOP

Session A: 2F Group Study room No.1, Science & Engineering Library, Osaka Univ.
Session B: 2F Group Study room No.1, Science & Engineering Library, Osaka Univ.
Session C: Room 212, P1 Building, Suita Campus, Osaka Univ.