

# 29<sup>th</sup> Brand Ritchie Workshop @ Matsue (Temporary) Scientific Program

Thursday, May 12

18:00- Welcome @Tokyu Inn

Friday, May 13

**8:50-10:30 Session I Ion-surface interaction**

8:50-9:00 Y. Yamazaki Opening

9:00-9:30 H. Winter Fast Atom Diffraction

9:30-10:00 T. Ikeda Resistive switching induced on a glass plate by slow highly charged ions

10:00-10:30 T. M. Kojima Ion beam guiding with curved Teflon tubes

10:30-11:00 Coffee break

**11:00-12:30 Session II SPM1**

11:00-11:30 M. Tsukada Theoretical Approaches and Simulators for the Scanning Probe Microscopy

11:30-12:00 Y. Kuwahara Optical property of organic nanosystem evaluated by STM-induced photon detection technique

12:00-12:30 A. Ayuela Magnetism in graphene induced by defects

12:30-13:40 Lunch

**13:40-15:40 Session III electron/photon**

13:40-14:10 T. Koshikawa Dynamic observation of  $[\text{CoNi}_x]_y$  multi-layers with high brightness, high spin-polarization and long life time SPLEEM

14:10-14:40 T. Kinoshita Dynamics of Magnetostatically Coupled Vortices Observed by Time-Resolved Photoemission Electron Microscopy

14:40- 15:10 K. Sakamoto Electronic states of self-assembled pi-conjugated organic ultra-thin films

15:10-15:40 T. Aruga Large Rashba spin splitting at solid surfaces

15:40-16:10 Coffee Break

**16:10-18:10 Session IV**

16:10-16:40 K. Nagamine Particle Beam Radiography from nm-scale to km-scale

16:40-17:10 N. Oshima Manipulation techniques of a slow positron beam in AIST

17:10-17:40 N. Okabayashi Electron transport through alkanethiol molecules in single and double tunneling junctions

17:40-18:10 T. Kobayashi Ion irradiation effects on polymer at solid/liquid interface Dinner

Saturday, May 14

**8:30-10:30 Session V      SPM2**

8:30-9:00 F. Komori Reversible atom manipulation by tunneling carrier injection

9:00-9:30 S. Hasegawa Charge/Spin Injection and Penetration into Surfaces

9:30-10:00 Y. Kim Mode-selective and state-selective chemistry of a single molecule with tunneling electrons

10:00-10:30 P. Cabrera-Sanfelix DFT investigation of electron-induced cross-linking of aromatic SAM on Au(111): formation of graphene nanoribbons

10:30-11:00 Coffee break

**11:00-12:30 Session VI      Ion-solid**

11:00-11:30 A H. Yamada Atomic-scale Investigations of Solid-Liquid Interfaces by Frequency Modulation

11:30-12:00 T. Azuma resonant coherent excitation of heavy ions: from population control to precise spectroscopy

12:00-12:30 W. Werner The role of surface excitations in electron spectra and secondary electron emission

12:30-13:00 W. Meissl Three-dimensional micro-irradiation of living cells by short pulses of MeV ions in a controlled environment

13:10- Excursion to Izumo (+Lunch box)

19:00- Workshop Banquet

Sunday, May 15

**9:00-10:30 Session VII      liquid & solid targets**

9:00-9:30 A. Itoh Stopping power of liquid water and alcohols for fast H and He

9:30-10:00 K. Nakajima Surface structure of ionic liquids: A study with high-resolution RBS and SIMS

10:00-10:30 W. A. Dino Computational Materials Design Case Studies

10:30-11:00 Coffee break

**11:00-12:30 Session VIII      ion-surface**

11:00-11:30 J. Matsuo Structure dynamics study on epitaxial VO<sub>2</sub> film by using femto-second X-ray diffraction

11:30-12:00 Y. Kanai Dynamic features of ion guiding by insulator multi-capillaries

12:00-12:30 Y. Yamazaki Density enhancement of energetic charged particles with tapered glass capillary

12:30- T. Koshikawa Closing remark

Adjourn