

Workshop of Ion - Insulator Interaction: WIII08

(<http://www-ap.riken.jp/wiii08/>)

Sept. 7:

~14:00 Bus leaves Electrocommunication University (see attached pdf file on the meeting point)

~15:00 Bus arrives/leaves RIKEN (Meeting Point: Atomic Physics Lab. of the Main Research Building)

~19:00 Bus arrives Kokuryu Kan (Workshop site), Iiyama

19:30 Reception

Sept. 8:

7:00-8:30 Breakfast

8:30-10:30 Session I: Review

8:30-8:50 Welcome and brief overview of the Workshop

Yasunori Yamazaki

8:50-9:40 Principles of ion guiding through nanocapillaries in insulating polymers

Nico Stolterfoht

9:40-10:30 Heavy-ion microbeam as a probe of cellular radiation response

Yasuhiko Kobayashi

10:30-11:00 Coffee Break

11:00-13:00 Session II: Review

11:00-11:40 Ion irradiation in liquid: possible application for cell biological studies

Naoko Imamoto

11:40-12:20 Guiding of slow HCIs through tapered glass capillary and paired glass plates

Tokihiko Ikeda

12:20-13:00 Recent progress of micro/nano fabrication using FIB

Anto Yasaka

13:00-14:00 Lunch

14:00-17:00 Excursion to Kosuge Shrine

17:00-19:00 Dinner

19:00-22:00 Session III: Multicapillary/Ion-Insulator

19:00-19:30 Simulation of guiding of charged particles through nanocapillaries: ions and electrons

Klaus Schiessl

19:30-20:00 Slow highly charged ions guided through SiO₂ nano-capillaries

Hongqiang Zhang

20:00-20:30 Fast electron and ion transmission through PET nanocapillaries

John Tanis

20:30-21:00 Fluorine scattering on TiO₂

Vladimir Esaulov

21:00-21:30 Dynamic features of beam guiding in polymer microcapillaries

Masamitsu Hoshino, Yasuyuki Kanai

Sept. 9:

7:00-8:30 Breakfast

8:30-10:30 Session IV: Biological target

- 8:30 - 9:00 Ion- and collision-induced fragmentation of biomolecular systems
Bernd Huber
- 9:00 - 9:30 Ion irradiation for living cell surgery using a tapered glass capillary with end window
Yoshio Iwai
- 9:30 -10:00 Molecular Imaging of a Single Cell with Nuclear Microprobe
Jiro Matsuo
- 10:00-10:30 Secondary ions sputtering from n-alkanethiol self assembled monolayers
Marcos Carrasco

10:30-11:00 Coffee Break

11:00-12:30 Session V: Single Capillary

- 11:00-11:30 Imaging dynamics of charge-self-organization in glass capillaries: Latest results and prospectives
Amine Cassimi
- 11:30-12:00 Progress report of material analysis with grass capillary in Nara Women's University
Kunikazu Ishii
- 12:00-12:30 Nanodots induced by highly charged ions using glass capillary: preliminary results
Yuu Kanazawa

12:30-14:00 Lunch

14:00-16:00 Session VI: Single Capillary

- 14:00-14:30 Transmission of 4.5 keV Ar⁹⁺ ions through single glass macrocapillary
Karoly Tokesi
- 14:30-15:00 Transmission of ¹⁵N at 6 MeV through glass capillaries
Hiroki Yonemura
- 15:00-15:30 Density enhancement of muon beams with tapered glass tubes
Takao Kojima
- 15:30-16:00 Positron microbeams and thier applications
Nagayasu Oshima

16:00-16:30 Coffee Break

16:30-18:00 Session VII: Cluster & Summary

- 16:30-17:00 X-ray emission, a fast thermometer for electrons in laser- cluster interaction
Dominique Vernhet
- 17:00-17:30 Fast ion atomic collision processes in free C₆₀ and solids
Lokesh Tribedi
- 17:30-18:20 Summary and Outlook (tentative)
Joachim Burgdoerfer

19:00- Banquet:

Culture Session: Indian music: Jayasree Tribedi
Kendo: Tomoriho Kobayashi & Yoshio Iwai

Sept. 10:

- 7:00-8:00 Breakfast
- 8:30- Bus leaves for Wako with a short visit at Zenkoji temple in Nagano
- 9:30- Bus arrives Zenkoji: Sightseeing & Lunch
- ~12:30- Bus leaves Nagano
- ~16:30 Bus arrives Wakoshi station (and then RIKEN)