

Mini-Workshop on “Physics and Modeling of Multi-scale Interaction in Plasmas”

Dec. 2-3, 2010,

(Discussion meeting aiming at the student education through advanced research)

Place: 6F Meeting Room 5, Mielparque Kyoto, Kyoto

メルパルク京都, 〒600-8216 京都市下京区東洞院通七条下ル東塩小路町 676 番 13

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<http://www.mielparque.jp/kyt/kyt01.html>

Time: December 2 (Thursday) 13:10–18:00 Dec. 3 (Friday) 9:10–17:00

December 2 (Thursday)

13:10 – 13:20 Opening talk: Multi-scale problems in plasmas
Y. Kishimoto (Kyoto U., Japan)

Session 1: Turbulence and transport

13:20 – 13:50 (1) Radial electric field generated by the low hybrid wave injection in a tokamak plasma

Zhe Gao (Tsinghua U., China)

13:50 – 14:20 (2) Vortex structures and zonal flows in ITG/ETG turbulence

Tomohiko Watanabe (NIFS, Japan)

14:20 – 14:50 (3) Phase space entropy dynamics in gyro-kinetic micro-turbulence

Kenji Imadera (Kyoto U., Japan)

14:50 – 15:05 discussion

15:05 – 15:20 **Coffee break**

Session 2: Electron MHD dynamics

15:20 – 15:50 (4) Electron MHD dynamics in laser-produced plasmas

Kunioki Mima (Osaka U., Japan)

15:50 – 16:20 (5) Tearing modes in electron magnetohydrodynamics

Huishan Cai (U. of Science & Technology, China)

16:20 – 16:30 discussion

16:30– 16:45 **Coffee break**

Session 3: MHD theory and dynamics

16:45 – 17:25 (6) A new matching method for linear MHD modes close to ideal stability boundary (lecture)

Masaru Furukawa (U. of Tokyo, Guest Prof. of Kyoto U., Japan)

17:25 – 17:55 (7) Some problems on Double Tearing Modes in tokamak plasmas
Zhengxiong Wang (Dalian U. of Technology)

17:55 – 18:10 discussion

18:30 – 20:30 Reception

December 3 (Friday)

Session 4: MHD and magnetic reconnection in space plasma (40)

9:10 – 9:50 (8) In situ measurements on 3D magnetic reconnection
in space plasmas

Chijie Xiao (Peking U., China)

9:50 – 10:30 (9) Reconnection dynamics in weakly ionized plasmas and recent solar
observation

Hiroaki Isobe (Kyoto U., Japan)

10:30–10:45 discussion

10:45 – 10:55 **Coffee break**

Session 5: Magnetic reconnection and Alfvén wave (30)

10:55–11:25 (10) Why magnetic reconnection in collisionless shock experiment with
National Ignition Facility

Hideaki Takabe (Osaka U., Japan)

11:25 –11:55 (11) Magnetosphere-ionosphere feedback interactions and auroral
dynamics

Tomohiko Watanabe (NIFS, Japan)

11:55 – 12:25 (12) Explosive dynamics of double tearing mode and reconnection, and
the theoretical mechanism

Miho Jenvier (Kyoto U., Japan)

12:25 – 12:40 discussion

12:40 – 13:40 **Lunch break**

Session 6: MHD and magnetic reconnection, multi-scale dynamics (30)

13:40 – 14:10 (13) Dissipation region of collisionless magnetic reconnection
Akihiro Ishizawa (NIFS, Japan)

14:10 – 14:40 (14) Magnetic reconnection caused by turbulence

Akihiro Ishizawa (NIFS, Japan)

14:40 – 15:10 (15) Interaction between macro-MHD and micro-turbulence
Jiquan Li (Kyoto University, Japan)

15:10 – 15:20 discussion

15:20 – 15:30 Coffee break

Session 6: New physics trend and others

15:30 – 16:00 (16) New trend of high power laser physics in the world
Hideaki Takabe (Osaka U., Japan)

15:60 – 16:30 (17) Not determined

16:30 – 16:40 Discussion and closing
Y. Kishimoto (Kyoto U., Japan)

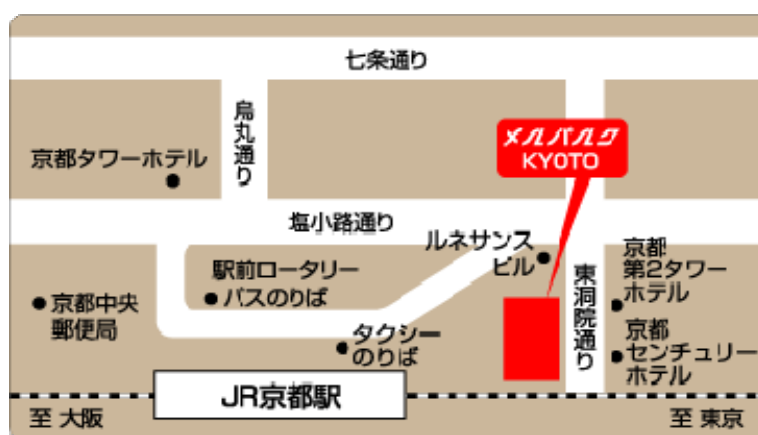
Mielparque Kyoto

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駐車場ご利用料金

営業時間	駐車台数	駐車形態	料金
8:30 ~ 22:30	105	機械式	400 円(1h)以降 30 分ごとに 200 円増し

満車の時はやむを得ずお断りする事があります。予めご了承ください。

車高制限 1.55mまで

[Reception place]

Asahi Beer restaurant super dry runessance

<http://www.asahifoodcreate.co.jp/index.htm>

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