The Abdus Salam International Centre for Theoretical Physics

Joint ICTP-IAEA Workshop on Fusion Plasma Modelling using Atomic and Molecular Data

Organizer(s): IAEA: B.J. Braams and Hyun K. Chung. Local Organiser: J. Niemela
Trieste - Italy, 23 - 27 January 2012

Final programme

MONDAY, 23 JANUARY 2012

23 January 2012

08:30 - 09:00 (Room: Leonardo da Vinci Building, Lobby)
Registration and Administrative Formalities

09:00 - 09:15 (Room: Leonardo da Vinci Building Euler Lecture Hall)
Bas BRAAMS / *IAEA, Vienna, Austria*
Welcome and Introductions

09:15 - 10:00 **Detlev REITER** / *Forchungszentrum Juelich, Germany*
Introduction to edge plasma modelling

10:00 - 10:30 --- Coffee Break ---

10:30 - 11:15 **Kaoru OHYA** / *The University of Tokushima, Japan*
Introduction to impurity transport modelling and plasma-wall interaction

11:15 - 12:00 **Mourad TELMINI** / *LSAMA, Tunis, Tunisia*
Introduction to computations for electron-molecule collisions

12:00 - 13:30 (Room: Leonardo da Vinci Building Cafeteria)
--- Lunch Break ---

13:30 - 14:15 **Yuri RALCHENKO** / *NIST, Gaithersburg, USA*
Introduction to atomic data and spectroscopy

14:15 - 15:00 **Hyun-Kyung CHUNG** / *IAEA, Vienna, Austria*
Introduction to collisional-radiative modelling of atomic processes

15:00 - 15:30 --- Coffee Break ---

15:30 - 16:15 **Yaming ZOU** / *Fudan University, Shanghai, China*
Introduction to electron beam ion trap experiments
(talk to be presented by Roger HUTTON)

16:15 - 17:00 **Beata ZIAJA-MOTYKA** / *HASYLAB at DESY, Hamburg, Germany*
Introduction to uses of atomic data for modelling warm dense matter

TUESDAY, 24 JANUARY 2012

24 January 2012

08:30 - 09:15 (Room: Leonardo da Vinci Building Euler Lecture Hall)
Alain ALLOUCHE / *Universite\' de Provence, Marseille, France*
Introduction to desnity-functional theory modelling of fusion materials exposed to plasma

09:15 - 10:00 **Kai NORDLUND** / *University of Helsinki, Finland*
Introduction to molecular dynamics modelling for plasma-wall interaction

10:00 - 10:30 --- Coffee Break ---

10:30 - 12:00 **Beata ZIAJA-MOTYKA** / *HASYLAB at DESY, Hamburg, Germany*
Further modelling of warm dense matter

12:00 - 13:30 (Room: Leonardo da Vinci Building Cafeteria)
--- Lunch Break ---

13:30 - 15:00 **Participant short talks: schedule to follow**

15:00 - 15:30 --- Coffee Break ---

15:30 - 17:00 **POSTER SESSION (posters will remain up on Wednesday and Thursday)**

18:00 - 20:00 (Room: Leonardo da Vinci Building, Lobby)
--- WELCOME RECEPTION ---

WEDNESDAY, 25 JANUARY 2012

25 January 2012

08:30 - 10:00 (Room: Leonardo da Vinci Building Euler Lecture Hall)
Kai NORDLUND / *University of Helsinki, Finland*
Further molecular dynamics modelling for plasma-wall interaction

10:00 - 10:30 --- Coffee Break ---

10:30 - 12:00 **Yuri RALCHENKO** / *NIST, Gaithersburg, USA*
Further on atomic collisions and spectroscopy (may include computer lab)

12:00 - 13:30 (Room: Leonardo da Vinci Building Cafeteria)
--- Lunch Break ---

13:30 - 14:15 **Yaming ZOU** / *Fudan University, Shanghai, China*
Dielectronic recombination studies using EBIT
(talk to be presented by Roger HUTTON)

14:15 - 14:45 **Roger HUTTON** / *Fudan University, Shanghai, China*
Spectroscopy on EBITs

14:45 - 15:15 **Joel CLEMENTSON** / *Lawrence Livermore National Laboratory, USA*
Interpretation of EBIT data; the case of tungsten

THURSDAY, 26 JANUARY 2012

26 January 2012

08:30 - 10:00 (Room: Leonardo da Vinci Building Euler Lecture Hall)
Mourad TELMINI / *LSAMA, Tunis, Tunisia*
Further on electron-molecule collisions

10:00 - 10:30 --- Coffee Break ---

10:30 - 12:00 **Detlev REITER** / *Forchungszentrum Juelich, Germany*
Computer Lab on modelling with use of hydrogen kinetics database

12:00 - 13:30 (Room: Leonardo da Vinci Building Cafeteria)
--- Lunch Break ---

13:30 - 15:00 **Kaoru OHYA** / *The University of Tokushima, Japan*
Further on kinetic modelling of near-wall plasma

15:00 - 15:30 --- Coffee Break ---

15:30 - 17:00 **Alain ALLOUCHE** / *Universite\' de Provence, Marseille, France*
Quantum espresso group: Uses of the QE density functional code

FRIDAY, 27 JANUARY 2012

27 January 2012

08:30 - 10:00 (Room: Leonardo da Vinci Building Euler Lecture Hall)
Yuri RALCHENKO / *NIST, Gaithersburg, USA*
Further on atomic physics and spectroscopy (may include lab.)

10:00 - 10:30 --- Coffee Break ---

10:30 - 12:00 **Hyun-Kyung CHUNG** / *IAEA, Vienna, Austria*
Further on collisional-radiative modelling (may include lab)

12:00 - 13:30 (Room: Leonardo da Vinci Building Cafeteria)
--- Lunch Break ---

13:30 - 15:00 **Detlev REITER** / *Forchungszentrum Juelich, Germany*
Further on edge plasma modelling and molecular data

15:00 - 15:30 --- Closing Session - Coffee Break ---