







Joint ICTP-IAEA School on Data for Modelling Atomic and Molecular Processes in Plasmas

Description:

This joint IAEA-ICTP School is a 5-day series of lectures and computing practical exercises to help early-career plasma physicists develop an understanding of the techniques used to model and simulate the radiative and collisional properties of plasmas at the atomic level.

MORE DETAILS:

- Fundamental principles of spectroscopic diagnostics
- Advances in experimental plasma diagnostic techniques
- Calculations of atomic and molecular structure and properties
- Fusion plasmas
- · Collisional-radiative modelling
- Online codes for the calculation of ionization distributions and spectra
- Spectroscopic characteristics of non-Maxwellian and highly transient plasmas
- Spectral line broadening
- Astrophysical spectroscopy
- Plasma opacity
- Principles of evaluation and uncertainty quantification of atomic and molecular data
- Data management and dissemination

SPEAKERS:

S. BREZINSEK, Forschungszentrum Jülich, Germany A. CALISTI, France J. GORFINKIEL, Open University, UK M. GOTO, NIFS, Japan C. HILL, IAEA, Austria R. PIRON, CEA/CAM/DIF, France Y. RALCHENKO, NIST, USA



18 - 22 March 2024



Trieste, Italy



Deadline:

15 December 2023

DIRECTORS:

S. BREZINSEK, Forschungszentrum Jülich, Germany DIPTI, IAEA, Austria C. HILL, IAEA, Austria Y. RALCHENKO, NIST, USA

LOCAL ORGANISER:

S. SCANDOLO, ICTP, Italy

GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

FURTHER INFORMATION:



E-mail: smr3924@ictp.it

Web: http://indico.ictp.it/event/10462/

Female scientists are encouraged to apply.



