

AUTUMN COLLEGE ON PLASMA PHYSICS

“Long-Lived Structures and Self-Organization in Plasmas”

**13 October - 7 November 2003
Miramare - Trieste, Italy**

There is an amazing variety of relatively long-lived macroscopic structures into which physical systems (in particular magnetoplasmas), far from thermal equilibrium, can settle into. It is generally believed that the structure formation is due to a process of self-organization, i.e., the system evolving (nonlinearly) under the influence of appropriate forces can find an equilibrium in which the forces effectively vanish and the system can stay put in a relatively relaxed state. An exploration and discussion of various routes to relaxation/self-organization will form the central activity of the college.

The programme will consist of lectures, intense group discussions, and poster sessions covering theory, experiment, and computer simulation. Some of the lectures will be perspective-building reviews on the “State of the Art” in several aspects of this growing field. Strong and creative participation of candidates is highly recommended. Participants are encouraged to come prepared to present their research work in poster sessions. There will be many pedagogic lectures for young participants.

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the College. As it will be conducted in English, participants should have an adequate working knowledge of this language. Although the main purpose of the Centre is to help research workers from developing countries, through a programme of training activities within a framework of international cooperation, a limited number of students and post-doctoral scientists from developed countries are also welcome to attend.

As a rule, travel and subsistence expenses of the participants should be borne by the home institution. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only for those who attend the entire activity. There is no registration fee.

The Application Form is obtainable from the ICTP WWW server:
<http://agenda.ictp.trieste.it/agenda/current/fullagenda.php?ida=a0286>
(which will be constantly up-dated) or from the activity Secretariat. It should be completed and returned before **1 March 2003** to:

**Autumn College on Plasma Physics
(smr1521)**

**the Abdus Salam International Centre for Theoretical Physics
Strada Costiera 11, 34014 Trieste, Italy.**

or

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DEADLINE

1 March 2003

