



The Abdus Salam
International Centre for Theoretical Physics


United Nations
Educational, Scientific
and Cultural Organization


International Atomic
Energy Agency

School on Astrophysical Fluid Dynamics

15 - 26 October 2007
Miramare, Trieste, Italy

BRIEF DESCRIPTION

The School aims to provide an introduction to Fluid Dynamics and its application to Astronomical phenomena. The programme consists of 4 courses and two one-day Symposia. This multidisciplinary School will involve the elements of *high energy astrophysics, fluid dynamics, plasma physics, relativity and gravitation, radiation theory and computational astrophysics*.

TOPICS

Courses:

- Fluids in Astrophysics
- Basic Fluid Dynamics
- Accretion-Ejection Flows
- Magnetohydrodynamics

Two one-day symposia on:

- Cosmological Flows
- Accretion-Ejection Flows

PARTICIPATION

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the School. 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, 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 from developing countries, to be selected by the organizers. There is no registration fee.

The **Application Form** is available on the ICTP WWW server: <http://agenda.ictp.it/smr.php?1865> (which will be constantly updated) or from the activity Secretariat. It should be completed and returned before **30 June 2007** to:

School on Astrophysical Fluid Dynamics
(smr 1865) (c/o Ms. Suzie Radosic)
the Abdus Salam International Centre for Theoretical Physics
Strada Costiera 11, 34014 Trieste, Italy.

or
smr1865@ictp.it (please send attachments in PDF format)

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DIRECTORS

AND

COURSE LECTURERS

D. Bhattacharya (RRI, India)

S. Massaglia (U. Torino, Italy)

A. Rogava (GeNAO, Georgia)

S. Sridhar (RRI, India)

K. Subramanian (IUCAA, India)

SYMPOSIUM SPEAKERS

G. Bodo (INAF-Osservatorio
Astronomico di Torino, Italy)

S. Chakrabarti (SNBNCBS, Kolkata,
India)

A. Ferrara (SISSA/ICTP, Italy)

R. Keppens (Centre for Plasma
Astrophysics, KU Leuven,
Belgium)

R. V. E. Lovelace (Cornell University,
Ithaca, USA)

M. Lyutikov (Purdue University, USA)

Ue-Li Pen (CITA, Canada)

S. K. Sethi (RRI, India)

K. Subramanian (IUCAA, India)

K. C. Tsinganos (University of
Athens, Athens, Greece)

APPLICATION DEADLINE

30 June 2007