



Advanced School and Workshop in Real and Complex Dynamics

20 - 31 May 2013

ICTP, Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP) is organizing an **Advanced School and Workshop in Real and Complex Dynamics**, to be held from 20 to 31 May 2013, in Trieste, Italy. It will be directed by M. Lyubich (Stony Brook), J. Smillie (Cornell), S. Van Strien (Imperial College) and S. Luzzatto (ICTP).

NATURE AND PURPOSE

Dynamical Systems is a very broad field with many applications. This activity will focus on some advanced topics in dynamics and so will be suitable for mathematicians who have a strong background and are ambitious and interested in developing their research in dynamical systems in a solid and rigorous direction.

The **first week** of the activity is devoted to a **school** giving an overview of current research topics in real and complex dynamics. Four intensive courses will be given.

One - Dimensional Real Dynamics (*S. Van Strien*)

Two - Dimensional Real Dynamics (*M. Martens*)

One - Dimensional Complex Dynamics (*M. Lyubich*)

Two - Dimensional Complex Dynamics (*J. Smillie*)

The **second week** will be an international workshop, where leading experts will report on the newest developments in the field of Real and Complex Dynamics.

PARTICIPATION

Mathematicians from all countries which are members of the United Nations, UNESCO or IAEA may attend the School & Workshop. As it will be conducted in English, participants should have an adequate working knowledge of that 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.**

HOW TO APPLY FOR PARTICIPATION

The application form can be accessed at the activity website <http://agenda.ictp.it/smr.php?2460>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

Activity Secretariat:

The Abdus Salam International Centre for Theoretical Physics (ICTP)

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October 2012

Organizers

M. Lyubich (*Stony Brook*)

J. Smillie (*Cornell*)

S. Van Strien (*Imperial College*)

S. Luzzatto (*ICTP*)

Lecturers

M. Lyubich (*Stony Brook*)

M. Martens (*Stony Brook*)

J. Smillie (*Cornell*)

S. Van Strien (*Imperial College*)

Invited Speakers

Marco Abate (*Pisa*)

Artur Avila (*IMPA*)

Eric Bedford (*Indiana*)

Araceli Bonifant (*Rhode Island*)

Xavier Buff (*Toulouse*)

Arnaud Cheritat (*Toulouse*)

Welington de Melo (*IMPA*)

Tien-Cuong Dinh (*Jussieu*)

Romain Dujardin (*Polytechnique, Paris*)

Denis Gaidashev (*Uppsala*)

Anton Gorodetsky (*Irvine*)

John Hubbard (*Cornell*)

Jeremy Kahn (*Brown*)

Vadim Kaloshin (*Maryland*)

Carlangelo Liverani (*Roma-Tor Vergata*)

Stefano Marmi (*Scuola Normale Superiore, Pisa*)

John Milnor (*Stony Brook*)

Volodia Nekrashevich (*Texas A&M*)

Enrique Pujals (*IMPA*)

Maria Saprykina (*Stockholm*)

Weixao Shen (*Singapore*)

Mitsuhiro Shishikura (*Kyoto*)

Nessim Sibony (*Paris-Sud*)

Tetsuo Ueda (*Kyoto*)

Michael Yampolsky (*Toronto*)

Jean-Christophe Yoccoz (*Collège de France*)

**Deadline for requesting
 participation:**

31 January 2013