The Abdus Salam International Centre for Theoretical Physics
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SISSA

НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ

ICTP-SISSA-Moscow
School on Geometry and Dynamics

3 - 15 June 2013
Miramare-Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP), in collaboration with International School for Advanced Studies - Trieste (SISSA), National Research University Higher School of Economics - Moscow (NRU HSE) and Steklov Mathematical Institute of the Russian Academy of Science (MIRAS) will organize the **ICTP-SISSA-Moscow School on Geometry and Dynamics**, which will be held at ICTP, Trieste, Italy, from **3** to **15 June 2013**.

This School aims at surveying contemporary lines of research in dynamical systems and their interplay with Geometry. Geometric ideas in real, complex, and symbolic dynamics, and in optimal control theory, will be discussed.

We plan on having 6-7 intensive mini-courses, as well as a number of seminars, invited lectures and contributed talks by participants. Tentative titles of the courses are given below.

No special training in particular branches of dynamical systems or geometry is assumed from participants, however a solid foundation in at least one of these areas is essential. The interconnections between ideas in different branches will be emphasized.

COURSES
Sub-Riemannian geometry *(A. Agrachev)*

Measure-preserving actions of infinite-dimensional groups *(A. Bufetov)*

On the representation theory of the symmetric groups (the Okounkov-Vershik approach) *(T. G. Ceccherini-Silberstein)*

The Garden of Eden theorem for cellular automata over amenable groups *(T. G. Ceccherini-Silberstein)*

Ergodic Theorems for actions of Markov groups *(A. Klimenko)*

Non-uniformly expanding maps *(S. Luzzatto)*

Polynomial Dynamics and Thurston Laminations *(V. Timorin)*

PARTICIPATION
Mathematicians from all countries that 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. No additional funding is available for participants to attend this school. However, applications are welcome from interested researchers, who can come with their own funds. There is no registration fee.

HOW TO APPLY
The application form can be accessed at the activity website:
http://agenda.ictp.it/smr.php?2546
Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

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School's web page: http://agenda.ictp.it/smr.php?2546 ICTP Home Page: www.ictp.it

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