



The Abdus Salam
International Centre
for Theoretical Physics



School and Workshop on Dynamical Systems

DESCRIPTION:

This school and workshop constitute an opportunity to celebrate the long-standing tradition of dynamical systems activities at ICTP initiated in the early 1980s.

MORE DETAILS:

Dynamical Systems is a vibrant field of current research in Mathematics, with connections to other fields as Differential Geometry, Probability Theory and ODEs, and potential applications in such diverse areas as Economics, Engineering and Science. It can be thought of as a modern development of ODEs, with guiding ideas going back to pioneering works of Poincaré, Birkhoff and Kolmogorov. The list of invited speakers reflects a diversity of topics, and their lectures will be the basis of the program, but other participants will have an opportunity to present their works in lectures or posters.

TOPICS:

- Complex Dynamics
- Differentiable Dynamics
- Ergodic Theory
- Fractal Dimensions
- Homogenous Dynamics
- Nonuniformly Hyperbolic Dynamics
- Partially Hyperbolic Dynamics
- Parabolic Dynamics

LECTURERS AND COURSES:

- V. ERLANDSSON, University of Bristol, UK
"Mirzakhani's curve counting and geodesic currents"
- Y. LIMA, UFC, Brazil and M. POLETTI, UFC, Brazil
"Partially hyperbolic diffeomorphisms with zero center exponent: An invariance Principle"
- L. LOMONACO, IMPA, Brazil
"Copies of the Mandelbrot set"
- E. PUJALS, CUNY, USA
"From zero to positive entropy"
- D. THOMPSON, The Ohio State University, USA
"Thermodynamic Formalism for Geodesic Flows"

SPEAKERS:

- A. AVILA, University of Zurich, Switzerland & IMPA, Brazil
- V. BERTHE, IRIF, France
- D. BURGUET, Sorbonne University, France
- C. BURRIN, University of Zurich, Switzerland
- S. CROVISIER, University of Paris-Saclay, France
- F. DAL'BO, University of Rennes 1, France
- G. ESTEVEZ, UFF, Brazil
- G. FORNI, University of Maryland, USA
- A. KOCSARD, IMPA, Brazil
- S. MARMI, SNS, Italy
- M. J. PACIFICO, UFRJ, Brazil
- J. RAISSY, University of Bordeaux, France
- F. RODRIGUEZ HERTZ, Penn State University, USA
- J. RODRIGUEZ HERTZ, SUSTech, China
- D. THERESIU, Leiden University, Netherlands
- R. URES, SUSTech, China
- K. WAR, IMPA, Brazil
- H.-K. ZHANG, University of Massachusetts, USA



22 July - 9 August 2024



Trieste, Italy



Deadline:
28 April 2024

DIRECTORS:

J. F. ALVES, University of Porto, Portugal
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LOCAL ORGANISER:

S. LUZZATTO, 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: smr3959@ictp.it

Web: <https://indico.ictp.it/event/10497/>

Female scientists are encouraged to apply.

