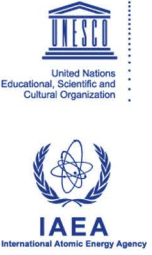




The Abdus Salam
International Centre
for Theoretical Physics
50th Anniversary 1964 - 2014



School and Workshop on Singularities in Geometry, Topology, Foliations and Dynamics

24 November - 19 December 2014

Cuernavaca and Mérida,
México



The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, Centre International de Mathématiques Pures et Appliquées (CIMPA), Nice, France, Universidad Nacional Autónoma de México (UNAM), Cuernavaca, México, Universidad Autónoma de Yucatán (UADY), Mérida, México, are jointly organizing the **School and Workshop on Singularities in Geometry, Topology, Foliations and Dynamics**. This event is co-sponsored by ICTP, CIMPA, UNAM, UADY and CONACYT.

The School will take place at **Instituto de Matemáticas, UNAM, Unidad Cuernavaca, Cuernavaca, México**, from 24 November to 5 December, and the Workshop will take place at **Universidad Autónoma de Yucatán, Mérida, México**, from 8 to 19 December 2014.

Singularity theory is a crossroad of various areas of mathematics and science in general. In the last 5 years we have seen striking developments, both within singularity theory itself and in its relations with other areas of mathematics. The purpose of this event is to present some of the basic foundations of singularity theory, as well as recent results that brings us up to the boundary of our present knowledge in various topics. Particular emphasis will be given to the theory of singularities in geometry, topology, foliations and dynamics.

**The first two weeks (24 November – 5 December)
will be a ICTP-CIMPA School on the following topics:**

- Local polar varieties in the study of singularities of spaces and maps (*Bernard Teissier, France*);
- Théorie élémentaire des feuilletages holomorphes (*Dominique Cerveau, France*);
- Feuilletages holomorphes singuliers (*Frank Loray, France*);
- Dynamical Systems and valuations (*Felipe Cano, Spain*);
- Arc spaces and the Nash problem (*Javier Fernández de Bobadilla, Spain*);
- Characteristic classes of singular varieties (*Jean-Paul Brasselet, France*);
- Poincaré Hopf's theorem on singular varieties (*José Seade, México*);
- Invariants of holomorphic foliations (*Laura Ortiz, México*);
- Singularités et valuations: interactions entre géométrie et algèbre commutative (*Mark Spivakovsky, France*);
- Introduction to mixed singularities and their applications (*Mutsuo Oka, Japan*);
- Singularities and tropical geometry (*Fuensanta Aroca, México*) and (*Lucía López de Medrano, México*).

Up-to-date information about the Programme of the School can be found at the activity website:
www.matcuer.unam.mx/eventos/sing2014

**The Workshop will be held during the third and fourth weeks
(8 - 19 December), with the participation of renown experts.**

PARTICIPATION

Scientists and students from all countries that are members of the United Nations, UNESCO or IAEA may attend the Activity. As it will be conducted in English, participants should have an adequate working knowledge of that language. Limited funds are available for participants, to be selected by the organizers. **Such financial support is available only for those who attend the entire activity.**

HOW TO APPLY FOR PARTICIPATION

The application form can be accessed at the activity website:

<http://agenda.ictp.it/smr.php?2640>

Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

DIRECTORS

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LOCAL ICTP ORGANIZER

Claudio AREZZO
(ICTP, Trieste, Italy)

CONFIRMED INVITED SPEAKERS

- H. Aguilar** (Universidade de São Paulo)
- F. Aroca** (UNAM, Cuernavaca)
- J.M. Aroca** (Universidad de Valladolid)
- E. Artal** (Universidad de Zaragoza)
- J.J. Nuño Balesteros** (Universidad de Valencia)
- A. Bodin** (Université de Lille)
- M. Boileau** (Université Aix-Marseille)
- J.P. Brasselet** (Université Aix-Marseille)
- C. Camacho** (IMPA, Brazil)
- A. Campillo** (Universidad de Valladolid)
- F. Cano** (Universidad de Valladolid)
- W. Ebeling** (Leibnitz University)
- V. Goryunov** (Liverpool University)
- D.T. Lê** (Université de Marseille)
- S. López de Medrano** (UNAM)
- I. Luengo** (Universidad Complutense de Madrid)
- L. Maxim** (University of Wisconsin)
- A. Menegon** (Universidade Federal da Paraíba)
- D. Mond** (Warwick University)
- M.Morgado** (Universidade Estadual de São Paulo)
- A. Nemethi** (Renyi Institute of Mathematics)
- M. Oka** (Tokyo University of Science)
- J. Palis** (IMPA, Brazil)
- A. Parusinski** (Université de Nice)
- Maria Pe Pereira** (ICMAT Madrid)
- Patrick Popescu-Pampu** (Université de Lille)
- J. J. Risler** (Université Paris 6)
- M. Ruas** (Universidade de São Paulo)
- P. Sad** (IMPA, Brazil)
- B.Scardua** (Universidade Federal de Rio de Janeiro)
- J. Schuermann** (University of Münster)
- D. Siersma** (Utrecht University)
- A. Simis** (Universidade Federal de Pernambuco)
- M. Soares** (Universidade Federal de Minas Gerais)
- T. Suwa** (Hokkaido University)
- B. Teissier** (Université Paris 7)
- M. Tosun** (Galatasaray University)
- R. Uribe** (Université de Bourgogne)

**Deadline for
requesting participation:
15 JULY 2014**