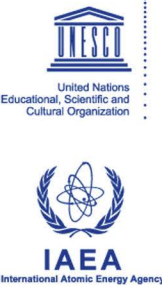




The Abdus Salam
**International Centre
for Theoretical Physics**
50th Anniversary 1964 - 2014



Fifth International Conference and School Geometry, Dynamics, Integrable Systems – GDIS 2014: Bicentennial of The Great Poncelet Theorem and Billiard Dynamics

16 - 27 June 2014
Miramare, Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP) is organizing a "Fifth International Conference and School Geometry, Dynamics, Integrable Systems – GDIS 2014: Bicentennial of The Great Poncelet Theorem and Billiard Dynamics", to be held at ICTP, Trieste, Italy, from 16 June to 27 June 2014.

The main aim of the school is to introduce young participants into these exciting topics and prepare them for the week long conference to follow the school.

The **first week** on the activity is devoted to a school that will give an overview of recent developments and interrelations between geometry and dynamical systems, with a special focus on mathematical billiards and integrable systems. The school will provide a background in algebraic geometry, theory of measured foliations and flat surfaces, the discrete integrable systems, 2-2 correspondences, the QRT maps, and the mechanical background of the billiard systems.

The **second week** will be an international conference, where leading experts will report on the newest developments in the field of integrable dynamical systems and their geometry. The event will mark the bicentennial of the great Poncelet theorem.

Topics

- **Mathematical Billiards**
- **Flat surfaces and exchange transformations**
- **Classical Integrable Systems**
- **Algebro-Geometric Methods in Dynamical Systems**
- **Nonholonomic mechanics**
- **Rigid-Body and Multi-Body Dynamics**

Participation

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. Although the main purpose of the Centre is to help researchers from developing nations through a programme of training activities within the framework of international cooperation, students and 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.** We expect additional limited funds to support participants from the US institutions. **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?2586>

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

Deadline 31 March 2014

Activity Secretariat:

The Abdus Salam International Centre for Theoretical Physics (ICTP)
(SMR 2586), Strada Costiera 11, I-34151 Trieste, Italy
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Trieste, December 2013

Co-Sponsor



National Science Foundation (USA)

Organizers

A. Borisov

(Udmurt State University, Russia)

V. Dragovic

(UT Dallas, USA/MI SANU, Serbia)

B. Dubrovin

(SISSA, Italy)

V.V. Kozlov

(Russian Academy of Science, Russia)

Local Organizer

L. Göttsche

(ICTP, Italy)

Invited Lecturers include:

Vladimir Dragovic *(UT Dallas, USA/MI SANU, Serbia)*

Marcelo Viana *(IMPA, Brazil)*

Sergey Tabachnikov *(Penn State, PA, USA)*

Invited Speakers include:

Alain Albouy *(IMCCE-CNRS, Paris, France)*

Sergey Bolotin *(U. Wisconsin, Madison, USA)*

Alexey Borisov *(ICS, Udmurt SU, Russia)*

Monique Chyba *(U. Hawaii, USA)*

Holger Dullin *(U. Sydney, Australia)*

Yuri Fedorov *(UPC, Barcelona, Spain)*

Borislav Gajic *(MI SANU, Serbia)*

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