

SUMMER SCHOOL AND CONFERENCE ON POISSON GEOMETRY

4 - 22 July 2005

Miramare - Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP) is organizing a "**Summer School and Conference on Poisson Geometry**", to be held from 4 to 22 July 2005 in Trieste, Italy. The aim of this activity is to introduce young mathematicians to Poisson geometry. Some familiarity with basic differential geometry and symplectic geometry is assumed.

The first two weeks will be a school, with about nine minicourses of 4 to 6 hours each. **The third week** will be devoted to an international conference. In addition to invited plenary lectures, there will also be sessions where participants can present their work.

MAIN TOPICS

- **Local normal forms of Poisson structures** (J.-P. Dufour and N.T. Zung)
- **Symmetry and reduction in Poisson geometry** (J.-P. Ortega)
- **Lie groupoids and Lie algebroids, with an emphasis on the integrability problem** (R. L. Fernandes and M. Crainic)
- **Infinite dimensional Poisson geometry and coherent states** (A. Odziejewicz)
- **Applications of Poisson geometry to physical problems** (D. Holm)
- **Quantization of Poisson manifolds** (S. Gutt)
- **Poisson-Lie groups and Poisson groupoids** (P. Xu)
- **Bihamiltonian structures and Frobenius manifolds** (B. Dubrovin)
- **Geometry of Dirac structures** (G. Blankenstein and T. Ratiu)

Participation

Mathematicians from all countries that are members of the United Nations, UNESCO or IAEA may attend the School. Although the main purpose of the ICTP is to help researchers from developing nations through a programme of training activities within a framework of international cooperation, students and scientists from developed countries are also welcome to attend. As the School will be conducted in English, participants must have a good working knowledge of that language.

As a rule, travel and subsistence expenses of the participants are borne by the home institution. However, limited funds are available for some participants from, and working in, developing countries, not more than 45 years of age, to be selected by the organizers. Such financial support is available only for those who attend the entire activity. Every effort should be made by candidates to secure support for their fare (or at least half fare) from their home country. There is no registration fee to attend the School.

The **Request for Participation form** is obtainable from the ICTP WWW server: <http://agenda.ictp.trieste.it/smr.php?1665>. The completed request form should be signed and sent to:

the Abdus Salam ICTP

"**Summer School and Conference on Poisson Geometry**"

(SMR 1665 c/o Ms. K. Mabilo)

Strada Costiera 11

I-34014 Trieste, Italy

or

smr1665@ictp.trieste.it (please save and send file attachments in RTF format)

Telephone: +39 - 040 - 2240 455 Telefax: +39 - 040 - 2240 490 or 224 163

Deadline for requesting participation is 20 January 2005

The decision of the Organizers will be communicated to all candidates as soon as possible thereafter.

Trieste, August 2004

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