

Spring School on Classical and Quantum Mechanics

IIMAS-UNAM, 3-14 March 2008



<http://leibniz.iimas.unam.mx/~sscqm/index.html>

The Spring School will introduce the participants to modern methods of mathematical analysis for the study of classical and quantum mechanical systems. There will be eight mini-courses in the following areas of mathematical physics: scattering theory, dynamics of complex systems, and the spectral theory of the related operators. There will also be discussions in small groups about open questions and possible research topics.

The Spring School will be held at the premises of the Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas (IIMAS), located at the central campus of the Universidad Nacional Autónoma de México (UNAM).

Invited Lecturers

Andreas Knauf

Universität Erlangen-Nürnberg (Germany)

Ernesto Lacomba-Zamora

Universidad Autónoma Metropolitana-Iztapalapa (México)

Hajo Leschke

Universität Erlangen-Nürnberg (Germany)

Ernesto Pérez-Chavela

Universidad Autónoma Metropolitana-Iztapalapa (México)

Hermann Schulz-Baldes

Universität Erlangen-Nürnberg (Germany)

Wolfgang Spitzer

Universität Erlangen-Nürnberg (Germany)

Stefan Teufel

Universität Tübingen (Germany)

Ricardo Weder

Universidad Nacional Autónoma de México (México)

Organizers:

Rafael del Río (UNAM)

Hermann Schulz-Baldes (Univ. Erlangen-Nürnberg)

Luis Silva (UNAM)

Julio Toloza (UNAM)

Ricardo Weder (UNAM)

Registration and Support:

Registration to attend the Spring School can be done exclusively on-line at the web page of the event; the deadline is **February 29, 2008**.

Financial support will be available to a limited number of students, which will cover part of the cost of lodging and local transportation. To be considered for support, the applicant should register and ask his/her advisor to send a letter by **February 15, 2008**.

Contact at IIMAS:

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Courses

Andreas Knauf

Topological and Geometric Ideas in Scattering Theory

Ernesto Lacomba-Zamora

Vortex Motion on Bidimensional Fluids

Hajo Leschke

Some Aspects of Random Schrödinger Operators and Random Spin Hamiltonians

Ernesto Pérez-Chavela

Central Configurations in Classical Mechanics

Hermann Schulz-Baldes

From Random Schrödinger Operators to Random Matrices

Wolfgang Spitzer

Semi-classical Analysis and the Stability of Matter

Stefan Teufel

A diabatic Perturbation Theory in Quantum Dynamics

Ricardo Weder

Inverse Scattering in Quantum Mechanics

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