

**V INTERNATIONAL SYMPOSIUM  
ON  
QUANTUM THEORY AND SYMMETRIES**

**Valladolid, Spain, July 22 - 28, 2007**

**FIRST CIRCULAR**

The V International Symposium on **Quantum Theory and Symmetries** (QTS-5) will be held in Valladolid, Spain, July 22-28, 2007.

This Symposium is one of a series of International Symposia previously held as follows: Goslar (Germany), 1999: QTS-1; Cracow (Poland), 2001: QTS-2; Cincinnati (USA), 2003: QTS-3, and Varna (Bulgaria), 2005: QTS-4.

The forthcoming QTS-5 Symposium will be devoted to modern studies on quantum physics and other fields of research where symmetry methods also play an important role. The preliminary programme includes the following **topics**:

- Symmetries in String Theory, Quantum Gravity, Supergravity and related topics
- Quantum Field Theories, Conformal and Related Field Theories, Lattice and Noncommutative Theories, Gauge Theories
- Quantum Computing, Information and Control
- Foundations of Quantum Theory
- Quantum Optics, Coherent States, Wigner Functions
- Dynamical and Integrable Systems
- Symmetries in Condensed Matter and Statistical Physics
- Symmetries in Particle Physics, Nuclear, Atomic and Molecular Physics
- Nonlinear Quantum Mechanics
- Time Asymmetric Quantum Mechanics
- SUSY Quantum Mechanics, PT Symmetries and pseudo-Hamiltonians
- Mathematical Methods for Symmetries and Quantum Theories
- Symmetries in Chemistry, Biology and other Sciences.

## Scientific Programme

The Symposium programme consists of five morning plenary sessions and four afternoons with several parallel sessions. Contributed talks (30 and 20 minutes) will be presented at the afternoon sessions.

Contributions to be given as talks will be selected on the basis of recommendations by the International Advisory Committee. All other contributions will be presented as posters.

Sunday, July 22, is the arrival day (The Symposium Registration Desk at the Residencia Universitaria Alfonso VIII will be open between 16.00 and 20.00 on Sunday, and will continue the next morning in the Facultad de Ciencias). Saturday, July 28, is the departure day.

## International Advisory Committee

L. Accardi (Roma), M. Asorey (Zaragoza), M.T. Batchelor (Canberra), C. M. Bender (Washington), A. Bohm (Austin), E. Celeghini (Firenze), I. Cirac (Garching), S. Ferrara (CERN), J. P. Gazeau (Paris), G. Goldin (Rutgers), F. Iachello (Yale), J. Klauder (Gainesville), P. Kulish (St.Petersburg), B. Mielnik (México DF), W. Miller (Minneapolis), M. Plyushchay (Santiago de Chile), O. Ragnisco (Roma), S. Randjbar-Daemi (ICTP), M. Santander (Valladolid), G. Sierra (Madrid), P. Townsend (Cambridge), R. Twarock (York), P. Winternitz (Montreal), K. B. Wolf (Cuernavaca), F. Wilczek (MIT).

## QTS Conference Board

S.T. Ali (Montreal), L.L. Boyle (Canterbury), M.A. del Olmo (Valladolid), V.K. Dobrev (Sofia), H.-D. Doebner (Clausthal), E. Kapuscik (Cracow), V.I. Man'ko (Moscow), G. Marmo (Naples), G.S. Pogosyan (Yerevan and Dubna), T.H. Seligman (Cuernavaca), A.I. Solomon (Open University and University of Paris VI), P. Suranyi (Cincinnati), L.C.R. Wijewardhana (Cincinnati).

## Organizing Committee (Valladolid University)

Mariano A. del Olmo (*Chairman*), O. Arratia, J.A. Calzada, M. Gadella, F. Gómez-Cubillo, J.M. Izquierdo, Ş. Kuru and J. Negro.

## Conference site

The Conference will be held at the Facultad de Ciencias of the Universidad de Valladolid.

Valladolid is the capital of the Autonomic Community of *Castilla y León*. It is located near the center of Castilla y León at about 200 km. from Madrid to the North. Its population is around 300.000. Although Valladolid is usually known by its historical role in the Kingdom of Spain, today it has become an important industrial center.

Valladolid has a brilliant past. Its origin go back to the XIth century (1072). In the XIIIth century, the Universidad de Valladolid was founded. The Universities of Valladolid and Salamanca are the oldest existing in Spain today, and are among the earliest of such institutions in Europe.

Valladolid has outstanding museums like the Museum of Sculpture and Columbus House. In addition, our city can boast of having impressive historical buildings whose styles run the gamut from Romanesque to Neoclassic: Santa María la Antigua (Gothic-Romanesque), Santa Cruz Palace (Renaissance), Cathedral (Renaissance), San Pablo Church (late Gothic), Filipinos Church (Neoclassic) etc.

Valladolid has good communications with all of Spains main cities. Communications with Madrid by bus and train are quite frequent and convenient. In addition, daily flights connect Villanubla (Valladolid airport) with Barcelona, Brussels, London, Paris, Valencia and Tenerife.

The climate in Valladolid in July is warm (30 degrees C), sunny and dry.

More information about the city of Valladolid and its province can be found in

<http://www.valladolidturismo.com>

## Registration Fee

The **registration fee** for participants is **240 Euros** if paid before May 15, 2007 or **275 Euros** if paid after May 15.

The fee for students and retired scientists is **150 (175) Euros**.

The registration fee includes: conference materials, welcome party, banquet, coffee break, Wednesday excursion and the Proceedings.

## Financial Support

The Conference may be able to offer financial support to a limited number of participants coming from countries with a weak economy and also to young researchers. Those who ask for financial support must indicate their interest in the registration form.

## Deadlines

Persons interested in participating are kindly asked to apply before May 15, 2007 by e-mail or by the Symposium home page

<http://tristan.fam.cie.uva.es/~qts5>

will be opened for registration before December 31, 2006.

The deadline for the submission of abstracts is also May 15, 2007.

## Other information

The **Second Circular** containing the scientific programme of the Conference and details of abstract submission as well as further information concerning registration, hotel accommodation, social program, transportation, etc. will be mailed in December, 2006.

The Proceedings will be published after the Conference.

There will be a social programme for accompanying persons.

## **Address for correspondence**

### **V International Symposium on Quantum Theory and Symmetries**

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