

XXIst International Workshop on Quantum Atomic and Molecular Tunneling Systems (QAMTS24)



17.juin - 21.juin 2024

Cod. Z07-24

Modalité:

En personne

Édition

2024

Type d'activité

Workshop

Date

17.juin - 21.juin 2024

Location

Miramar Palace

Langues

Anglais

Reconnaissance officielle par l'État

50 heures

Comité d'organisation

Fundación
BBVA





Gipuzkoako Foru Aldundia
Diputación Foral de Gipuzkoa

Description

Tunneling phenomena are of importance in a wide range of fields in the physical, chemical, biological and computational sciences. The present series of Workshops has always been highly cross-disciplinary. It encompasses work on tunneling of protons and heavier species in gas and condensed phases, in general, including biological systems, chemical reactions, transport phenomena in solids and liquids and in systems of lower dimensionality.

The scientific program will include, but is not limited to, the following topics:

- *Proton tunneling in hydrogen bonds*
- *Tunneling and proton transfer in biomolecular systems*
- *Kinetic isotope effects*
- *Vibrational rotational tunneling dynamics in molecules and clusters*
- *Tunneling in quantum ferroelectrics and paraelectrics*
- *Atomic and molecular tunneling in wires, surfaces, glasses and amorphous systems*
- *Tunneling in porous materials*
- *Tunneling diffusion phenomena*
- *Spin-tunneling problems*
- *Tunneling transport in superprototypic conductors, acids and bases*
- *Effects of atomic tunneling on electron transport in nanosystems*
- *Advances in deep inelastic (Compton) neutron scattering*
- *Advances in NMR, Synchrotron Radiation, and other experimental techniques with applications to tunneling*
- *Multidimensional tunneling theories*
- *Quantum annealing (adiabatic quantum computing)*
- *Advances in computational methods and software updates*
- *Tunneling in the interstellar medium*

ORGANIZING COMMITTEE:

Ricardo Díez Muiño, Donostia International Physics Center, San Sebastian (Chair)

Antonio Fernández Ramos, Universidade de Santiago de Compostela (Chair)

Salvador Miret Artés, Instituto de Física Fundamental CSIC, Madrid (Chair)

Objectifs

We encourage contributions on all phenomena where atomic, molecular, or magnetic tunneling plays an important role, including not only processes in solids and matrices, but also organic and organometallic reactions in liquids, tunneling processes in clusters and nanoparticles, enzyme-catalyzed reactions, and some non-traditional emerging areas.

Collaborateurs spécifiques au cours



Donostia
International
Physics Center



HEZKUNTZA SAILA
DEPARTAMENTO DE EDUCACIÓN

Directed by



Salvador Miret Artés

Instituto de Física Fundamental, CSIC

Tarifs inscription

| REGISTRATION | JUSQU'AU 09-06-2024 |
|---------------------|----------------------------|
| Fee Waiver | 0 EUR |
| Student Fee | 310,00 EUR |
| Standard Fee | 420,00 EUR |

Lieu

Miramar Palace

Pº de Miraconcha nº 48. Donostia / San Sebastián

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