

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



Eka. 17 - Eka. 21 2024

Kod. Z07-24

Mod.:

Aurrez aurrekoa

Edizioa

2024

Jarduera mota

Workshop

Data

Eka. 17 - Eka. 21 2024

Kokalekua

Miramar Jauregia

Hizkuntzak

Ingelesa

Balio akademikoa

50 ordu

Webgunea

https://qamts2024.dipc.org/

Antolakuntza Batzordea









Azalpena

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 superprotonic 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)

Helburuak

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.

Ikastaroaren laguntzaile espezifikoak





HEZKUNTZA SAILA
DEPARTAMENTO DE EDUCACIÓN

Zuzendaritza



Salvador Miret Artés

Instituto de Física Fundamental, CSIC

Irakasleak



Chiara Donatella Aieta

Università degli Studi di Milano



Zlatko Bacic Bacic

New York University



jianshu cao

MIT



Michele Ceotto

Università degli Studi di Milano



Bo Chen

Donostia International Physics Center



John Ellis

Cavendish Laboratory, Cambridge University



Ion Errea

UPV/EHU

Ion Errea is an Associate Professor at the University of the Basque Country and leads the Quantum Theory of Materials group at the Centro de Física de Materiales. His research focusses on the development of theoretical methods for calculating complex properties of solids, such as quantum and anharmonic effects in atomic vibrations and the electron-phonon interaction, and the application of these methods in hydrogen-based superconductors, thermoelectric materials, phase transitions in solids, nanostructures, etc. He is an ERC grantee, research associate at the Donostia International Physics Center, and member of Jakiunde.



Sofiya Garashchuk



Alejandro Gonzalez-Tudela

Instituto de Fisica Fundamental-CSIC



Marta I. Hernández

Instituto de Física Fundamental, Consejo Superior de Investigaciones Científicas (IFF-CSIC)



Pavel Jelinek

Institute of Physics of the AS CR



Elena Jiménez



Sebastian Kozuch

Ben-Gurion University of the Negev



Alberto Lesarri

Universidad de Valladolid



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Peking University



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UPV/EHU



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Ruhr-Universität Bochum



Cláudio Nunes Manaia

University of Coimbra



Francesco Paesani

University of California, San Diego



Jeremy Richardson

ETH Zurich



Octavio Roncero Villa

Instituto de Física Fundamental (CSIC)



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Radboud University



Gunther Wichmann

ETH Zürich



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Pacific Northwest National Laboratory



Peter Saalfrank

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Marco Sacchi

University of Surrey



Wolfram Sander

Ruhr-Universität Bochum



Steven Schwartz

University of Arizona



Micheline Soley

University of Wisconsin-Madison



Katarzyna Swiderek

Universitat Jaume I

Katarzyna Świderek obtained her PhD with honours in 2011 at the Lodz University of Technology (Poland). During her PhD she was funded by an AXIOM - Marie Curie Host Fellowship with a 3-month contract at the Helmholtz Centre for Environmental Research-UFZ in Leipzig (Germany). After her PhD, she moved to the University of Valencia. In 2015 she was contracted at Universitat Jaume I (UJI) in a project funded by the National Institutes of Health (NIH) coordinated by UJI and the University of Iowa, USA. At the same time, she received the Polish grant "Iuventus Plus" dedicated to talented young researchers (under 35). In 2017 she spent 6 months at the University of Bath (UK). She returned to Spain where she obtained a 2-year Juan de la Cierva-Incorporation contract, a 3-year JIN contract, and in 2022 Ramon y Cajal fellowship. In 2020 she became a leader of the StopProt project that was funded by the GenT-SEJI 2020 program of the Valencian Regional Government. Her professional activity is focused on theoretical studies of enzymatic catalysis. She is co-author of over 75 research publications. In 2019 she was awarded with GEQC-RSEQ.

Matrikula prezioak

REGISTRATION	2024-06-09 ARTE
Fee Waiver	0 EUR
Student Fee	310,00 EUR
Standard Fee	420,00 EUR

Kokalekua

Miramar Jauregia

Mirakontxa pasealekua 48, 20007 Donostia

Gipuzkoa