



# International Conference on Reduced Density Matrix Theory for Quantum Many- Fermion Systems (RDM2022)

15.Jun - 17.Jun 2022

Cód. Z04-22

**Mod.:**

Presencial

**Edición**

2022

**Tipo de actividad**

Workshop

**Fecha**

15.Jun - 17.Jun 2022

**Ubicación**

Palacio Miramar

**Idiomas**

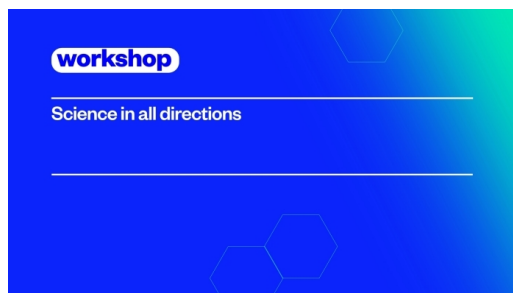
Inglés

**Validez académica**

30 horas

**Web**

<http://rdm2022.dipc.org>



**DIRECCIÓN**

Comité Organizador



## Descripción

The interdisciplinary RDM2022 brings together experts from the quantum sciences, particularly quantum chemistry and quantum information theory to elaborate on conceptual aspects of interacting quantum many-fermion systems. Topics will explore the theory and applications of both ground and excited states as well as time-dependent processes. The conference comprises the following connected thematic blocks:

1. Geometry of RDMs & Concept of fermionic correlation and entanglement.
2. 1- and 2-body N-representability Problem.
3. 1-RDM and 2-RDM Functional Theories.
4. Excited States and Time-Evolution.

### ORGANIZING COMMITTEE:

Prof. Mario Piris (DIPC, UPV/EHU, IKERBASQUE)

Prof. David A. Mazziotti (University of Chicago, USA)

Dr. Christian Schilling (LMU Munich, Germany)

### Objetivos

The aim of the International Conference on Reduced Density Matrix Theory for Quantum Many-Fermion Systems is to discuss recent ideas and identify open challenges related to the determination of the energy and properties of interacting fermions in terms of reduced density matrices.

### Colaboradores específicos del curso



**Dirigido por:**



**Mario Piris Piris Silvera**

DIPC & UPV/EHU & IKEBASQUE

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# Precios matrícula

REGISTRATION

HASTA 05-06-2022

Attendant

0 EUR

# **Lugar**

## **Palacio Miramar**

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa