

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



15.Jun - 17.Jun 2022

Cod. Z04-22

Mod.:

Face-to-face

Edition

2022

Activity type

Workshop

Date

15.Jun - 17.Jun 2022

Location

Miramar Palace

Languages

English

Academic Validity

30 hours

Web

http://rdm2022.dipc.org

Organising Committee









Description

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)

Objectives

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.

Course specific contributors



Directed by



Mario Piris Piris Silvera

DIPC & UPV/EHU & IKEBASQUE

Registration fees

REGISTRATION	UNTIL 05-06-2022
Attendant	0 EUR

Place

Miramar Palace

 $P^{\underline{o}}$ de Miraconcha nº 48. Donostia / San Sebastián

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