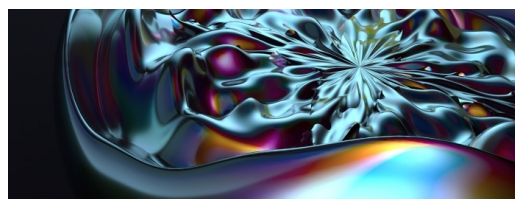




Topological Matter School 2024 (TMS24)



19.Ago - 23.Ago 2024

Cód. Z18-24

Mod.:
Presencial

Edición
2024

Tipo de actividad
Workshop

Fecha
19.Ago - 23.Ago 2024

Ubicación
Palacio Miramar

Idiomas
Inglés

Validez académica
50 horas

Web
<https://tms-dipc.org/>

DIRECCIÓN

Maia García Vergniory, Donostia International Physics Center

Comité Organizador

Fundación
BBVA



Descripción

Flat band materials offer a platform for enhancing correlation effects, rendering them an area of significant current interest. They present exceptional opportunities for exploring topology in correlated settings and correlation physics enriched by topology. Recent experiments on correlated kagome metals and moiré systems have unveiled evidence of peculiar behaviors, including strange-metal characteristics, charge density waves, nematic orders, and fractional Chern insulators within flat-band materials.

The following topics will be covered:

- Introduction to band theory and symmetry indicators
- Topological Flat bands and quantum geometry
- Heavy fermion systems
- Morie systems
- Kagome metals and charge density waves
- Strange metals

ORGANIZING COMMITTEE:

Maia G. Vergniory (DIPC, Max Planck)

Reyes Calvo (Universidad de Alicante)

Santiago BlancoCanosa (DIPC, Ikerbasque)

Adolfo Grushin (Institut NEEL – CNRS)

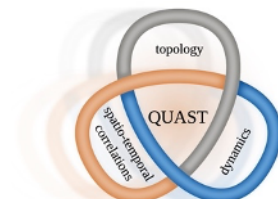
Alexander Altland (University of Cologne)

Julen Ibañez Azpiroz (CFM, Ikerbasque)

Objetivos

Throughout this school, our objective is to delve into the study of flat bands and these systems, as well as the intriguing physical phenomena they manifest, under the guidance of world-leading experts

Colaboradores específicos del curso



Dirigido por:



Maia García Vergniory

Donostia International Physics Center

Profesorado



Alexander Altland



Leni Bascones

ICMM-CSIC



Erez Berg

Weizmann Insitute



Andrei Bernevig



Yves Hon Kwan

Princeton University



Allan MacDonald

University of Texas at Austin



Vidya Madhavan Madhavan

UIUC



Nicolas Regnault

Ecole Normale Supérieure-CNRS, Research director



Carmen Rubio Verdú

ICFO



Päivi Törmä

Aalto University



Stephen Wilson

UC Santa Barbara



Ming Yi

Rice University



Zhida Song

Peking University

Precios matrícula

REGISTRATION FEES	HASTA 23-07-2024
Fee Waiver	0 EUR
Regular Attendant	400,00 EUR

Lugar

Palacio Miramar

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa