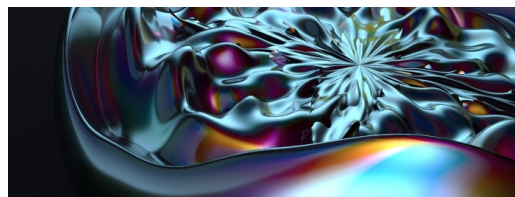




Topological Matter School 2024 (TMS24)



19.Août - 23.Août 2024

Cod. Z18-24

Modalité:

En personne

Édition

2024

Type d'activité

Workshop

Date

19.Août - 23.Août 2024

Location

Miramar Palace

Langues

Anglais

Reconnaissance officielle par l'État

50 heures

Comité d'organisation

Fundación
BBVA



Description

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
- Morié 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)

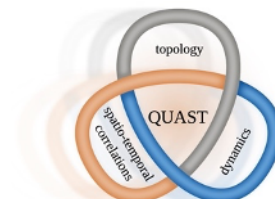
Alexander Altland (University of Cologne)

Julen Ibañez Azpiroz (CFM, Ikerbasque)

Objectifs

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

Collaborateurs spécifiques au cours



Directed by



Maia García Vergniory

Donostia International Physics Center

Professeurs



Alexander Altland



Leni Bascones

ICMM-CSIC



Erez Berg

Weizmann Insitute



Andrei Bernevig



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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

Tarifs inscription

REGISTRATION FEES

JUSQU'AU 23-07-2024

Fee Waiver

0 EUR

Regular Attendant

400,00 EUR

Lieu

Miramar Palace

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa