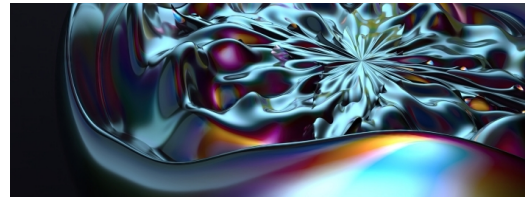




# Topological Matter School 2024 (TMS24)



**19.Aoû - 23.Aoû 2024**

**Cod. Z18-24**

**Modalité:**

En personne

**Édition**

2024

**Type d'activité**

Workshop

**Date**

19.Aoû - 23.Aoû 2024

**Location**

Miramar Palace

**Langues**

Anglais

**Reconnaissance officielle par l'État**

50 heures

**Comité d'organisation**



## 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)

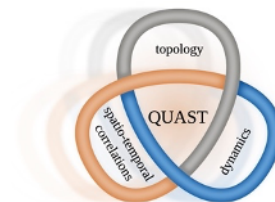
Alexander Altland (University of Cologne)

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

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# Tarifs inscription

REGISTRATION FEES

JUSQU'AU 21-07-2024

Fee Waiver

0 EUR

Regular Attendant

400,00 EUR

## **Lieu**

### **Miramar Palace**

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa