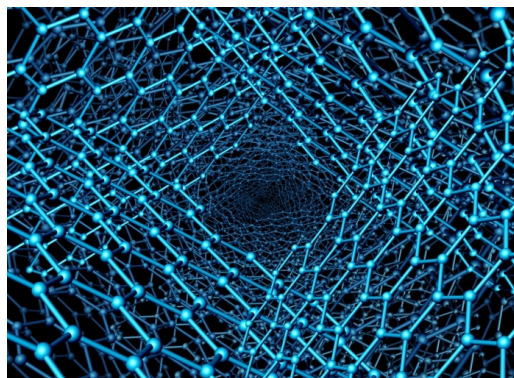




# Topological Matter School (TMS2026)



17.Août - 21.Août 2026

Cod. Z63-26

**Modalité:**

En personne

**Édition**

2026

**Type d'activité**

Workshop

**Date**

17.Août - 21.Août 2026

**Location**

Miramar Palace

**Langues**

Anglais

**Reconnaissance officielle par l'État**

50 heures

**Comité d'organisation**



## Description

The 2026 edition of the Topological Matter School marks a double celebration: ten years since the Nobel Prize in Physics recognizing the impact of topology, and the tenth anniversary of the school itself. Founded in 2016, the school has become one of the leading international forums dedicated to teaching and advancing topology in condensed matter physics.

This special anniversary edition will reflect on a decade of remarkable progress, with a program of pedagogical lectures reviewing how the field has evolved and where it is heading. We are deeply honored that **Prof. Duncan Haldane, Nobel Laureate in Physics 2016**, will deliver the **opening lecture**.

Topics to be covered:

- Review of **topological classifications and invariants** developed over the past decade
- Advances in **effective models for topological insulators, semimetals, and superconductors**
- New paradigms in **correlated and magnetic topological phases**
- Progress in **first-principles approaches** to topological materials discovery
- Integration of **high-throughput screening, symmetry analysis, and data-driven methods**
- Development of **real-space and Green's-function diagnostics** bridging theory and computation
- Key milestones in **ARPES, STM/STS, transport, and spectroscopy** confirming topological phenomena
- Discovery of **novel quantum materials** and **emergent quasiparticles**
- Synergy between **theoretical predictions** and **experimental realizations**

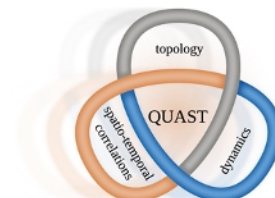
### ORGANIZING COMMITTEE:

- Maia G. Vergniory (DIPC, Université de Sherbrooke, Canada)
- Reyes Calvo (BC Materials)
- Santiago Blanco-Canosa (DIPC, Ikerbasque)
- Adolfo Grushin (DIPC, Ikerbasque)
- Alexander Altland (University of Cologne)
- Julen Ibañez Azpiroz (CFM, Ikerbasque)

### Objectifs

We seek for a week of reflection and forward-looking discussion on the future of topological quantum matter.

### Collaborateurs spécifiques au cours



## Directed by



**Maia García Vergniory**

Donostia International Physics Center

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# Tarifs inscription

REGISTRATION FEES

JUSQU'AU 19-07-2026

Fee Waiver	0 EUR
Regular Attendant	400,00 EUR

## **Lieu**

### **Miramar Palace**

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa