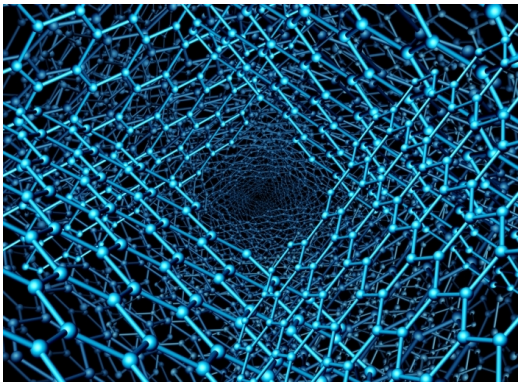
Topological Matter School (TMS2026)



Abu. 17 - Abu. 21 2026

Kod. Z63-26

Mod.:
Aurrez aurrekoa

Edizioa
2026

Jarduera mota
Workshop

Data
Abu. 17 - Abu. 21 2026

Kokalekua
Miramar Jauregia

Hizkuntzak
Ingelesa

Balio akademikoa
50 ordu

Webgunea
https://tms-dipc.org/

Antolakuntza Batzordea

Azalpena

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**

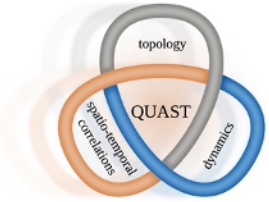
ORGANIZING COMMITTEE:

- 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)

Helburuak

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

Ikastaroaren laguntzaile espezifikoak



Zuzendaritza

Maia García Vergniory

Donostia International Physics Center

Matrikula prezioak

REGISTRATION FEES	2026-07-19 ARTE
Fee Waiver	0 EUR
Regular Attendant	400,00 EUR

Kokalekua

Miramar Jauregia

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Gipuzkoa