



Topological Photonics Workshop 2022 (TopoPhoto2022)



Eka. 01 - Eka. 03 2022

Kod. Z03-22

Mod.:

Aurrez aurrekoa

Edizioa

2022

Jarduera mota

Workshop

Data

Eka. 01 - Eka. 03 2022

Kokalekua

Donostia International Physics Center

Hizkuntzak

Ingelesa

Balio akademikoa

30 ordu

Antolakuntza Batzordea





Azalpena

During the past decades, the state of the art in the field of Materials Science has been profoundly led by the discovery of topological insulators and the subsequent understanding of topological materials.

Topological insulators are very special materials which behave as insulators in their interior, but that can support conducting states on their surface. These “surface states” are symmetry protected, meaning that, defects in the material cannot destroy them easily. On top of that, these topological edge states are generally protected against backscattering. This last feature implies that if energy (or information) is flowing in one particular direction through the surface of a topological insulator, it will continue flowing in that particular path even if it finds obstacles on its way. The study of the exotic properties of these novel materials is an incredibly interesting area of research in basic science and could facilitate fantastic engineering applications.

Topological states of matter were first discovered in the field of solid-state physics but recent contributions are proving their existence in diverse physical platforms. To mention a few, topological surface states have been recently identified in the fields of optics, acoustics and in excitonic and polaritonic materials.

ORGANIZING COMMITTEE:

Aitzol Garcia-Etxarri, DIPC, Donostia

Paloma Arroyo Huidobro, Instituto de Telecomunicações, Lisbon, Portugal

Helburuak

This workshop is aimed at gathering a critical mass of people working in the vibrant area of Topological Photonics as well as topology in other wave phenomena.

It will provide researchers in Topological photonics with a platform to learn and share the most recent advances in the field.

Ikastaroaren laguntzaile espezifikoak





Zuzendariak



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REGISTRATION FEES

2022-05-26 ARTE

Attendant

350,00 EUR



Kokalekua

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