

## TOPOLOGY IN CONDENSED MATTER

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## Syllabus - Topology in Condensed Matter

Syllabus Before you begin About this course Topology in toy models Hamiltonians, topology, and symmetry Bulk-edge correspondence in the Kitaev chain Assignments Majoranas I From Kitaev chain to a nanowire Majorana signatures: 4 -periodic Josephson effect, Andreev conductance quantization Why Majoranas are cool: braiding and quantum

## Intro - Topology in Condensed Matter

Intro Duncan Haldane from Princeton University will teach us about an interesting two dimensional toy-model which he introduced in 1988, and which has become a prototype for the anomalous quantum Hall effect.

## Topology in Condensed Matter

### Topology in Condensed Matter - TU Delft OCW

Applications of topology in condensed matter based on bulk-edge correspondence. Special attention to the most active research topics in topological condensed matter: theory of topological insulators and Majorana fermions, topological classification of grand ten symmetry classes, and topological quantum computation

## Topology in condensed matter physics - Physik Home

Topology in condensed matter physics Magda Marganska-Ly zniak . (Dated: May 7, 2016) The geometry of an atomic lattice and its chemical structure determine the electronic

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## Topology in Condensed Matter: Tying Quantum Knots

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**Topology in Condensed Matter: 150 (Springer Series in ...**

Topology in Condensed Matter: 150 (Springer Series in Solid-State Sciences) eBook: Michael I. Monastyrsky: Amazon.ca: Kindle Store

## Course on topology in condensed matter - YouTube

Videos for the EdX course on topology in condensed matter (<https://tiny.cc/topocm>)

**Topology in Condensed Matter | Michael I.**

### Monastyrsky ...

This book reports new results in condensed matter physics for which topological methods and ideas are important. It considers, on the one hand, recently discovered systems such as carbon nanocrystals and, on the other hand, new topological methods used to describe more traditional systems such as

### edX - Topology in Condensed Matter: Tying Quantum Knots ...

6 reviews for Topology in Condensed Matter: Tying Quantum Knots online course. The idea behind topological systems is simple: if there exists a quantity, which cannot change in an insulating system where all the particles are local

### Topology in Condensed Matter - Google Books

This book reports new results in condensed matter physics for which topological methods and ideas are important. It considers, on the one hand, recently discovered systems such as carbon nanocrystals and, on the other hand, new topological methods used to describe more traditional systems such as the Fermi surfaces of normal metals, liquid

### GitHub - topoem/topoem\_content: Course on topology in ...

Course on topology in condensed matter. Contribute to topoem/topoem\_content development by creating an account on GitHub.

### Topology and geometry in a quantum condensed matter system ...

O. Ja bi Topology and geometry in a quantum condensed matter system: Weyl semimetals. Master Thesis

Supervisors: Dr. R-J. Slager Prof. Dr. J. Zaanen

### Stable Nontrivial Z<sub>2</sub> Topology in Ultrathin Bi (111)

### Films ...

Stable Nontrivial Z<sub>2</sub> Topology in Ultrathin Bi (111) Films: A First-Principles Study Zheng Liu,<sup>1,2</sup> Chao-Xing Liu,<sup>3</sup> Yong-Shi Wu,<sup>4,5</sup> Wen-Hui Duan,<sup>1</sup> Feng Liu,<sup>6</sup> and Jian Wu<sup>1</sup>