



The Abdus Salam
International Centre
for Theoretical Physics



School of Physics and Mathematics Without Frontiers (ZIGZAG)

DESCRIPTION:

The aim of this project is to inspire and engage students' on different subjects in theoretical physics and mathematics. The scientific program will be complemented by soft skills sessions.

MORE DETAILS:

The school is an interdisciplinary activity: it includes lectures in theoretical physics and mathematics and it consists of interactive lectures centered around exercises. We expect that the students will be at the end of an undergraduate degree and they plan to apply for new positions. The school will be composed of several mini-courses on different topics. Our ultimate goal is to help the students to engage with the material in a more active and inspiring way. At the end of the two weeks there will be some colloquiums on "Future directions" that will introduce the students to some more advanced topics and give them a flavor of possible research topics connected to the objects they have encountered in the school.

TOPICS:

- Advanced Quantum Mechanics
- Advanced Statistical Physics
- Introduction to Python
- Topology
- Group Theory
- Differential Geometry
- Complex Analysis

SPEAKERS:

Claudio AREZZO
ICTP, Italy
Michela ARTEBANI
University of Concepcion, Chile
Fabio BERNASCONI
University of Basel & Université de Neuchâtel, Switzerland
Alejandra CASTRO
University of Cambridge, UK
Lorenzo DI PIETRO
University of Trieste, Italy
Leticia CUGLIANDOLO
Sorbonne Université, France
Sergei GUKOV
California Institute of Technology, USA
Pamela HARRIS
University of Wisconsin, USA
Uriel MORZAN
Universidad de Buenos Aires, Argentina
Terry RUDOLPH
Imperial College London - PsiQuantum, UK



11 - 23 March 2024



Havana, Cuba



Deadline:
14 January 2024

DIRECTORS:

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LOCAL ORGANISERS:

Francesca FERRARI, ICTP, SciPost, Italy
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GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

FURTHER INFORMATION:



E-mail: smr3923@ictp.it

Web: <https://indico.ictp.it/event/10461/>

Female and minority scientists are encouraged to apply.

