

Spring College on the Physics of Complex Systems



20 February - 17 March 2023
An ICTP Meeting
Trieste, Italy

Further information:
<http://indico.ictp.it/event/10059/>
smr3817@ictp.it

ICTP and SISSA, in collaboration with the partner institutions of the International Master Course in Physics of Complex Systems (PCS), are organizing the Spring College on the Physics of Complex Systems from 20 February to 17 March 2023.

Description:

Many complex systems in physics, biology, engineering and economics are characterised by a large number of interacting degrees of freedom, giving rise to a non-trivial collective behaviour. The theoretical and computational tools for a quantitative analysis of complex systems are often rooted in modern theoretical physics. The Spring College on the Physics of Complex Systems aims to expose students to a selection of topics at the forefront of research during an intensive, 4-week programme.

The Spring College is part of the PCS Master programme and it is open to qualified Master and PhD students, and to young researchers. Candidates are required to solicit recommendation letters to be sent by their supervisors in support of their application.

Rules for participation:

Participants with financial support from the ICTP and Master PCS students are required to attend at least 80% of the courses and to take the final exam for each course. Certificates of attendance will be awarded only to participants who have attended at least 80% of the courses.

How to apply:

Online application:
<http://indico.ictp.it/event/10059/>

Female scientists are encouraged to apply.

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.

Directors:

J. GRILLI, ICTP, Italy
M. MARSILI, ICTP, Italy
A. ROSA, SISSA, Italy

Lecturers and Courses:

J. KURCHAN,
LPENS, École Normale Supérieure, Paris
“Out of equilibrium statistical mechanics”

K. KANEKO,
University of Tokyo & Niels Bohr Institute, Copenhagen
“Introduction to Universal Biology: Physicists’ Approach to Multilevel Life Phenomena”

M. BANDI,
OIST, Okinawa
“Surfactant dynamics - Complexity in a petri dish”

F. PINHEIRO and J. DAVILA-VELDERRAIN,
Human Technopole, Milan
“Bottom-up vs. top-down systems biology: what’s in the middle?”

Tutors:

M.L. Crespo, ICTP, Trieste
T. Pham, Niels Bohr, Copenhagen

Deadline:

30 November 2022



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