



The Abdus Salam
**International Centre
for Theoretical Physics**



Ghana School on Non-Equilibrium Physics

DESCRIPTION:

Statistical physics and stochastic theory constitute a framework for complex nonequilibrium phenomena. This synergy is essential to model noise and dynamic living systems in biophysics, neuroscience, and beyond. This school will provide students key knowledge on nonequilibrium physics.

MORE DETAILS:

The school provides fundamental knowledge on nonequilibrium physics, offering a rigorous overview of stochastic processes, transport phenomena, and the rudiments of non-equilibrium statistical physics. Participants will also explore cutting-edge applications spanning the physics of carbon nanostructures as well as theoretical and experimental biophysics. Requiring minimal prior familiarity with these advanced topics, the school aims to equip participants—including Master's and PhD students as well as early-career postdocs—with groundbreaking research methodologies in modern physical sciences. The primary objectives of the initiative are to foster scientific excellence across Africa, expand international collaboration, facilitate the exchange of scientific knowledge and technical expertise, and promote meaningful interactions between emerging African emerging talents and leading global researchers.

TOPICS:

- Non-equilibrium stochastic processes
- Non-equilibrium statistical physics
- Non-equilibrium transport phenomena in carbon nanotubes
- Biological physics out of equilibrium

LECTURERS:

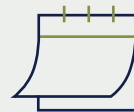
Frederick Van Wijland
Université Paris Cité, France
Kirone Mallick
IPhT CEA Saclay, France
Daniel Sekyi-Arthur
University of Ghana, Ghana

Romeo Prince Mensah
AIMS Ghana, Ghana
Eva K Deli
University of Debrecen, Hungary

Co-Sponsors:



Department of Physics
School of Physical and Mathematical Sciences
College of Basic and Applied Sciences



5 - 16 July 2027



**AIMS Ghana and
University of Ghana**



**Deadline:
15 October 2026**

DIRECTORS:

Angela Tabiri, AIMS Ghana, Ghana
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Raphael Chetrite, Université Côte d'Azur, France
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LOCAL ORGANISER:

Edgar Roldan, ICTP, Italy

FURTHER INFORMATION:



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Web: <http://indico.ictp.it/event/11443/>

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.

