Visiting Professor Program
Academic Year 2024/2025

TEACHING COMMITMENT: 12 hours

COURSE TITLE
Non-Equilibrium Fluctuations in Complex Fluids

TEACHING PERIOD
2nd term

SCIENTIFIC AREA
Condensed Matter

LANGUAGE USED TO TEACH
English

COURSE SUMMARY
The course will provide an introduction to non-equilibrium fluctuations in liquids and complex fluids. The problem will be discussed in the framework of non-equilibrium thermodynamics (NET), also considering the effects of gravity and confinement. Both theoretical aspects and experimental results will be discussed.

LEARNING OBJECTIVES
The students will learn to apply the tools of NET to the description of non-equilibrium fluctuations in hydrodynamic systems.

OTHER ACTIVITIES BESIDES THE COURSE
One seminar addressed to PhD students and to all the students of the master in Physics of Complex Systems.
VISITING PROFESSOR PROFILE
The candidate visiting professor has an experience in the experimental and/or theoretical study of non-equilibrium fluctuations in hydrodynamic systems. They have a track record of published research on international, peer-reviewed journals on the topic. The prospective candidate has a post-doctoral career of at least 10 years.

CONTACT REFERENT
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