

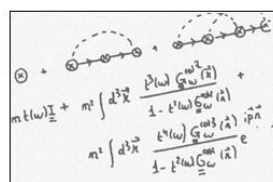
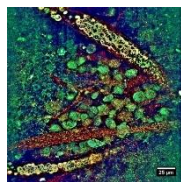
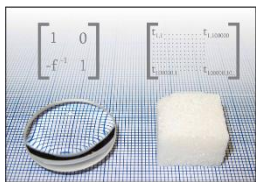


International Thematic School on **WAVES IN COMPLEX MEDIA**

FROM THEORY TO PRACTICE

September 18th-29th, 2023 - Les Houches Physics School, Chamonix Mont Blanc Valley, France

Scope of the school



School directors: *Sylvain Gigan, Nicolas Cherroret, Alexandre Aubry*

This field of the physics of waves in complex media not only covers optics, radio waves, but also acoustics (ultrasonic or seismic waves) and even quantum matter waves. In optics, it is especially important for a number of applications: biomedical imaging, photonics, bio-inspired materials or atom optics to give a few examples. The recent growth of these applications is, nevertheless, strongly connected with rich advances in fundamental physics: coherent wave transport and Anderson localization, cooperative effects, random-matrix theory constitute fields where the progresses in the recent years have opened a new range of possibilities for applications.

The objective of this school is to gather the best international specialists of the field, theoreticians and experimentalists, able to give solid bases on wave transport, imaging, control of waves in complex media and atomic physics, paying a particular attention to the analogies between different types of waves and materials.



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Attending a thematic school is a unique opportunity to learn, share and connect with top leaders in the field. The School is open to all researchers and PhD students without restriction of age, status or nationality.

**Application deadline (short motivation letter + abstract):
March 17th, 2023**

Lecturers

Allard Mosk (University of Twente, NL)
John Page (University of Manitoba, CA)
Romain Pierrat (CNRS, FR)
Stefan Rotter (TU Wien, AU)
Anne Sentenac (Institut Fresnel, FR)
Sergey Skipetrov (CNRS, FR)
Carlo Beenaker (Leiden University, NL),
Emmanuel Bossy (Université de Grenoble, FR)
Antoine Broaways (Institut d'Optique, FR)
Dominique Delande (LKB, FR)
Mathias Fink (Institut Langevin, FR)
Arthur Goetschy (ESPCI, FR)
Robin Kaiser (Université Côte d'Azur, FR)

Applications Seminars

Jacopo Bertolotti (Exeter University, UK)
Tom Bienaimé (Institut ISIS, FR)
Sophie Brasselet (Institut Fresnel, FR)
Michel Campillo (Université Grenoble-Alpes, FR)
Hui Cao (Yale University, US)
Rémi Carminati (ESPCI, FR)
Marcel Filoche (Ecole Polytechnique, FR)
Luis Froufe (Fribourg University, CH)
Ori Katz (Hebrew University, IL)
Vincent Josse (Institut d'Optique, FR)
Tsampikos Kottos (Wesleyan University, US)
Geoffroy Lerosey (GreenerWave, FR)
Riccardo Sapienza (Imperial College, UK)
Silvia Vignolini (University of Cambridge, UK)
Laura Waller (Berkeley University)