



Ettore Majorana foundation and centre for scientific culture
international school of solid-state physics, 89th course
Shaping light in space and time for biomedical imaging.

Erice, Sicily (Italy)

14 – 20 May 2025

The aim of our school is to bring together leading experts, researchers, and scholars in the field of biomedical optical imaging to share their knowledge, insights, and the latest advancements in shaping light in time and space for biomedical applications.



The Ettore Majorana Institute, nestled in the picturesque village of Erice, serves as the venue for the school. It offers an idyllic setting conducive to collaborative learning, stimulating discussions, and valuable networking opportunities. The center will fully cover lodging and meals in a single room with a private bathroom at one of the four monasteries in Erice. Additionally, transfers from Palermo or Trapani airports to Erice (approximately a one-hour drive by

private car) will be provided.

The participation fee is 900 Euros, covering all the expenses apart from the travel expenses to reach either Palermo or Trapani. Shuttles from the two airports will be organized for the arriving and departing days.

Invited speakers

Ana Batista, Univ. of Coimbra (P)
Jacopo Bortolotti, Univ. of Exeter, UK
Llangyi Chen, Peking University, Peking (CN)
Andrea Curatolo, Politecnico di Milano (I)
Hilton De Aguiar, Laboratoire Kastler Brossel, Paris (F)
Alberto De Castro, CSIC, Madrid (E)
Alba Paniagua Diaz, Univ. Murcia, Murcia (E)
Alexander Jesacher, Medizinische Universität, Innsbruck (A)
Rainer Heintzmann, Univ. Jena (D)
Mario Marini, Univ. Milano-Bicocca, Milano (I)
Raluca Niesner, Free University, Berlin (D)
Adrian Podoleanu, Univ. of Kent, UK
Paolo Pozzi, Politecnico di Milano (I)
Hervé Rigneault, Institut Fresnel Marseille (F)
IChiara Stringari, Ecole Polytechnique, Paris (F)
Iaria Testa, Karolinska Inst., Stockholm (S)

Topics

- Adaptive Optics in microscopy
- Biomedical imaging of the eye
- Coherent Raman microscopy
- Computational imaging in complex media
- Computational Raman microscopy
- Eye Physiology and Ocular Aberrations
- In vivo imaging
- Label free functional imaging
- Optical Coherence Tomography
- Structured illumination
- Second harmonic generation microscopy
- Super-resolution live-cell imaging
- Three-photon microscopy
- Wave front sensing and correction

Course Directors: [A. Bassi \(Politecnico di Milano\)](#) – [J. M. Bueno \(Univ. Murcia\)](#) - [G. Chirico \(Unimib\)](#)

Director of the School: G, BENEDEK

President of the Foundation: A. ZICHICHI

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