



**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 in the scenic village of Erice hosts the school, providing an ideal environment for collaborative learning and networking. Lodging and meals in a single room with a private bathroom are fully covered at one of Erice's four monasteries. Additionally, transfers from Palermo or Trapani airports (about a one-hour drive) are 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)  
Luigi Bonacina, Univ. Geneva (CH)  
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)  
Pietro Ferraro, CNR-ISASI, Naples (I)  
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)  
Chiara 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
- Nanotechnology for Enhanced Bioimaging
- Optical Coherence Tomography
- Structured illumination
- Second harmonic generation microscopy
- Super-resolution live-cell imaging
- Three-photon microscopy
- Wave front sensing and correction

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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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