

Pre-registration closes 14/04/2022!

Pre-registration is open from 01/02/2022 until 14/04/2022. The candidates will provide a CV, a motivation letter and, for Ph D students and Post Docs, a recommendation letter from their supervisor. Candidatures will be examined shortly and decision will be sent by May 1st, to allow enough time for candidates to prepare their travel. More on:

<http://ebeam2022.org/>

Topics & school styles

The eBEAM school focuses on electron spectroscopies for nano-optics.

Courses will cover: the basics of electron instrumentation and spectroscopies; electron-matter-light interaction; electron spectroscopies of optical material; time, space, and quantum coherence in electron spectroscopy; advanced EELS, CL and PINEM; photoemission ... The school is aimed at Ph. Ds, Post Docs and any researchers willing to dive in this new field. Due to the limited number of places (80), applicants will be selected with a CV and motivation letter at pre-registration time.

A series of 8 lectures lasting 2 hours (broken by a 30 min. pause) will be given. Each lecturer is asked to give a 30 min. seminar on their own research topic in addition to the lecture.

2 posters sessions will be organized.

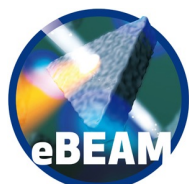


Venue & fees

The school will be organized at the beautiful Island of Porquerolles, in the French Mediterranean sea. All participants will be accommodated at IGeSA.

The 700 € fees will include double room accommodation (single room +100 €), all meals (from dinner on Sunday 11th night to lunch on Friday 16th), gala dinner, and boat trip to and from the island.

Generously sponsored by



Organization

The school is organized in the framework of the eBEAM – Electron Beams Enhancing Analytical Microscopy FET Proactive programme

Programme committee: A. Polmann (AMOLF, the Netherlands), J. Garcia de Abajo (ICFO, Spain), A. Feist (Univ. Göttingen, Germany), C. Ropers (Univ. Göttingen, Germany), W. Albrecht (AMOLF, the Netherlands), T. T. Coenen (DELMIC, the Netherlands), J. Verbeeck (EMAT, Belgium)

Local organization: L. Tizei, M. Kociak (chairmen), S. Hoarau, Y. Auad, J. D. Blazit

Contact : contact@ebeam2022.org @EBEAM2022

Important dates

Pre-registration start: 1st February
Pre-registration end: 14th April
Acceptance notification: 1st May
Registration end: 1st July



Time	Sunday - 11	Monday - 12	Tuesday - 13	Wednesday - 14	Thursday - 15	Friday - 16
09:00		Course 1 - EM Instrumentation	Course 3 - Electron spectroscopies of optical modes	Course 5 - time and quantum coherence in electron spectroscopy	Course 6 - space coherence in electron spectroscopy	Course 8 - Ultrafast PEEM
09:30						
10:00		Break	Break	Break	Break	Break
10:30		Course 1 - EM instrumentation	Course 3 - Electron spectroscopies of optical modes	Course 5 - time and quantum coherence in electron spectroscopy	Course 6 - space coherence in electron spectroscopy	Course 8 - Ultrafast PEEM
11:00						
11:30						
12:00		Course 1 - Seminar	Course 3 - seminar	Course 5 - seminar	Course 6 - seminar	Course 8 - seminar
12:30						Conclusions of school
13:00		Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
13:30						
14:00						
14:30						
15:00		Course 2 - Electron microscopy and spectroscopy basics	Course 4 - Electron spectroscopies of excitations in optical materials		Course 7 - advanced EELS	
15:30		Break	Break		Break	
16:00			Course 2 - Electron microscopy and spectroscopy basics		Course 7 - advanced EELS	
16:30						
17:00			Course 2 - seminar		Course 7 - seminar	Departure
17:30						
18:00						
18:30						
19:00		Arrival	Dinner break			
19:30						
20:00			Posters		Conference dinner	
20:30						
21:00						
21:30						
22:00						

Course 1: EM instrumentation basics - Peter Kruij, Delft University of Technology, the Netherlands

Electron optics, guns, vacuum, detectors, blankers ...

Course 2: Electron microscopy and spectroscopy basics - Gerald Kothleitner, Graz Technical University, Austria

Elastic scattering and applications, inelastic scattering and applications, EELS basics

Course 3: Electron spectroscopies of optical modes - Andrea Konečná, CEIT, Czech Republic

Theory fondation of EELS/CL/PINEM for photonic and plasmonic excitations & applications

Course 4: Electron spectroscopies of excitations in optical materials – Sean Collins, University of Leeds, UK

Theory fondation of EELS/CL for excions and other excitations in semiconductors and applications

Course 5: Time and quantum coherence in electron spectroscopy – Hugo Lourenço-Martins, CNRS, France

Theory, technologies and applications of time-resolved PINEM and CL

Course 6: Space coherence in electron spectroscopy – Axel Lubk, IFW, Germany

Theory, technologies and applications of spatially coherent spectroscopies, including phase shaping and holography

Course 7: Advanced EELS – Demie Kepaptsoglou, Superstem, UK

vibrational EELS, q-resolved EELS

Course 8: Ultrafast PEEM – Walter Pfeiffer, Bielefeld University, Germany

Optics excitations, ultrafast processes