

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) and gala dinner.

Generously sponsored by





Enhancing Analytical Microscopy FET Proactive programme

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

Netherlands

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

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

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

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

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

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

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

> Martins, CNRS, France -oýu

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

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

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

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