

Near-field Optical Nanoscopy Summer School

San Sebastian, June 6 – 9, 2023



Program

meet the leading experts in near-field optics



attocube
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Program

Tuesday | June 6th, 2023

09:00 – 09:30	Registration & coffee
09:30 – 10:00	Rainer Hillenbrand – CIC nanoGUNE BRTA, San Sebastián, Spain Monika Goikoetxea – CIC nanoGUNE BRTA, San Sebastián, Spain Dorota Pawlak – Ensemble3, Warsaw, Poland <i>Opening Remarks</i>
10:00 – 11:00	Lukas Eng – IAPP, TU Dresden, Germany <i>Introduction to Atomic Force Microscopy (AFM)</i>
11:00 – 11:30	Coffee Break
11:30 – 13:00	Fritz Keilmann – LMU, Munich, Germany Rainer Hillenbrand – CIC nanoGUNE BRTA, San Sebastián, Spain <i>Introduction to scattering-type Scanning Near-Field Optical Microscopy (s-SNOM)</i>
13:00 – 14:30	Cocktail lunch at Palacio Miramar
14:30 – 15:30	Martin Schnell – CIC nanoGUNE BRTA, San Sebastián, Spain <i>Pseudo-heterodyne (PsHet) interferometric detection in s-SNOM</i>
15:30 – 16:30	Rainer Hillenbrand – CIC nanoGUNE BRTA, San Sebastián, Spain <i>Near-Field Probing Phenomena – Part I</i>
16:30 – 17:00	Coffee break
17:00 – 17:15	Yasin Durmaz – neaspec, attocube systems AG, Haar, Germany <i>PsHet interferometric Point Spectroscopy with s-SNOM</i>
17:15 – 17:45	Lars Mester – neaspec, attocube systems AG, Haar, Germany <i>AFM and s-SNOM Data Processing using Gwyddion</i>

Evening Program

20:00	Dinner at a traditional Basque Cider house Meeting point: to be announced
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Wednesday | June 7th, 2023

08:30 – 09:00	Coffee
09:00 – 10:30	Raul Freitas – Brazilian Synchrotron Light Laboratory, Campinas, Brazil <i>nano-FTIR Spectroscopy</i>
10:30 – 11:00	Coffee Break
11:00 – 11:30	Tobias Gokus – neaspec, attocube systems AG, Haar, Germany <i>nano-FTIR Data Processing</i>
11:30 – 12:00	Alexander Govyadinov – neaspec, attocube systems AG, Germany <i>Modeling of Near-field Optical Contrast and Spectra</i>
12:00 – 12:15	Coffee Break
12:15 – 13:15	Lars Mester – neaspec, attocube systems AG, Haar, Germany <i>Material Contrasts in s-SNOM and nano-FTIR – Part I</i>
13:15 – 14:30	Cocktail lunch at Palacio Miramar
14:30 – 15:30	Thomas Taubner – RWTH Aachen, Germany <i>Material Contrasts in s-SNOM and nano-FTIR – Part II</i>
15:30 – 16:00	Coffee Break
16:00 – 16:30	Iris Niehues – CIC nanoGUNE BRTA, San Sebastián, Spain <i>Near-Field Probing Phenomena – Part II</i>
16:30 – 18:30	Poster Session I - with Beer & Wine & Cider + Pintxos



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Thursday | June 8th, 2023

08:30 – 09:00	Coffee
09:00 – 10:00	Lukas Eng – IAPP, TU Dresden, Germany <i>Advanced AFM Modes</i>
10:00 – 10:15	Break
10:15 – 11:00	Antonio Ambrosio – Center for Nano Science and Technology of IIT, Milan, Italy <i>Photoinduced Forces and Photothermal Expansion – Part I</i>
11:00 – 11:30	Coffee Break
11:30 – 12:15	Claas Reckmeier – neaspec, attocube systems AG, Haar, Germany <i>Photoinduced Forces and Photothermal Expansion – Part II</i>
12:15 – 14:30	Lunch
14:30 – 15:30	Adrian Cernescu – neaspec, attocube systems AG, Haar, Germany <i>Practical Aspects using neaSCOPE Instruments</i>
15:30 – 16:00	Coffee break
16:00 – 18:00	Poster Session II - with Beer & Wine & Cider + Pintxos
18:00 – 18:15	Rainer Hillenbrand – CIC nanoGUNE BRTA, San Sebastián, Spain <i>Closing Remarks</i>



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Friday | June 9th, 2023

Focus Sessions

08:30 – 09:00	Coffee
09:00 – 10:00	Pablo Alonso-González – University of Oviedo, Spain <i>Plasmon and Phonon Polariton mapping in 2D Materials</i>
10:00 – 10:45	Frank Koppens – ICFO, Castelldefels, Spain <i>Near-field Photocurrent mapping</i>
10:45 – 11:15	Coffee break
11:15 – 12:15	Dmitri Basov – Columbia University, New York, USA <i>Ultrafast Pump-Probe Nanoscopy</i>
12:15 – 13:00	Vladimir Zenin – University of Southern Denmark, Odense, Denmark <i>Near-field Imaging of Plasmonic and Dielectric Antennas and Waveguides</i>
13:00 – 14:30	Lunch



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Summer School Venue:

Miramar Palace
Paseo de Miraconcha 48
20007 San Sebastián (Spain)