



TENTATIVE PROGRAM (as of 09/03/2018)

P: Plenary / K: Keynote lecture / I: Invited Lecture / O: Oral contribution



TUESDAY (13/03/2018)

08:00 – 09:00: Registration

09:00 – 09:15: *Imaginenano2018 Opening Ceremony- Welcome and Introduction.*

09:15 – 10:00: Pedro Miguel Echenique (DIPC, Spain) P
Surface Attophysics

10:00 – 10:45: Avelino Corma (ITQ – CSIC / UPV, Spain) P
Nanopores such as molecular sieves, catalysts and containers

10:45– 11:30: *Coffee Break / Poster Session & Exhibition*

11:30 – 12:00: Remi Carminati (Langevin Institute - ESPCI, France) K
Probing mode connectivity in photonics using two classical or quantum nanosources

12:00 – 12:15: Martin Lopez Garcia (International Iberian Nanotechnology Laboratory, Portugal) O
Photosynthetic photonic crystals: photonic aspects of the ultimate light harvesting process in nature

12:15 – 12:30: Nicolas Ubrig (Universtiy of Geneva, Switzerland) O

Microscopic Origin of the Valley Hall Effect in Transition Metal Dichalcogenides O

12:30 – 12:45: Camilla Dore (ICMAB, Spain) O

Cellulose based photonic architectures O

12:45 – 13:00: María Ujué González (Instituto de Micro y Nanotecnología, IMN-CNM, CSIC, Spain) O
Photonic applications of nanocolumnar Au films obtained by glancing angle deposition with magnetron sputtering

13:00 – 14:30: *Lunch*

14:30 – 15:00: Javier Aizpurua (CSIC-UPV/EHU, Spain) K
Driving Plasmon-Enhanced Molecular Spectroscopy to the Atomic Scale

15:00 – 15:30: Peter Koval (DIPC, Spain) K
Title to be defined

15:30 – 15:45: Tânia Ribeiro (Instituto Superior Técnico, Portugal) O
Incorporation of plasmonic nanoparticles in organic photovoltaic solar cells

15:45 – 16:00: Nerea Zabala (UPV/EHU, Spain) O
Plasmonic nanoantennas for nanometer, picosecond control of VO₂ phase-transition

16:00 – 16:15: Jon Lafuente-Bartolome (University of the Basque Country (UPV/EHU), Spain) O
Spin plasmons at surfaces with strong spin-orbit coupling

16:15– 17:15: *Coffee Break / Poster Session & Exhibition*

17:15 – 17:45: Jean-Jacques Greffet (Institut d'Optique Graduate School, France) <i>Quantum plasmonics</i>	K
17:45 – 18:15: Priscila Kosaka (IMM-CNM-CSIC, Spain) <i>Hybrid optoplasmonic and nanomechanical sensor for proteomics</i>	I



WEDNESDAY (14/03/2018)

09:00 – 09:30: Jouni Ahopelto (VTT, Finland) <i>Nanostructures for Phononics</i>	K
09:30 – 10:00: Daniel Lanzillotti Kimura (C2N-CNRS, France) <i>Ultrahigh Frequency Phononics and Mechanics</i>	K
10:00 – 10:15: Omar Ortiz (C2N, France) <i>Nanophononic Potentials Based on Band Engineering</i>	O
10:15 – 10:30: Jeremie Maire (ICN2, CSIC and BIST, Spain) <i>Nanocrystalline silicon optomechanical cavities</i>	O
10:30 – 11:00: Soren Stobbe (Technical University of Denmark, Denmark) <i>Exciton-phonon interaction in coupled quantum wells: optical refrigeration and optomechanics</i>	K
<i>11:00– 11:30: Coffee Break / Poster Session & Exhibition</i>	
11:30 – 12:00: Ewold Verhagen (AMOLF, The Netherlands) <i>Nonlinear and pulsed optomechanical measurement in sliced photonic crystal nanobeams</i>	K
12:00 – 12:30: Daniel Navarro-Urrios (ICN2, Spain) <i>Nonlinear dynamics and chaos in Optomechanical nanobeams</i>	K
12:30 – 13:00: Clivia Sotomayor Torres (ICREA/ICN2, Spain) <i>Phonon-mediated Nanoscale Thermal Transport</i>	K
<i>13:00 – 14:30: Lunch (offered by the organization)</i>	
14:30 – 15:00: Alessandro Pitanti (NEST, CNR-Nano, Italy) <i>Silicon nitride membranes: jack of all electromechanical trades</i>	K
15:00 – 15:15: Daniel Torrent (Universitat Jaume I, Spain) <i>Control of Lamb Waves by Phononic Plates</i>	O
15:15 – 15:30: Alvaro Blanco (Instituto de Ciencia de Materiales de Madrid, Spain) <i>Tunable Fano Resonances in Colloidal Photonic Structures</i>	O
15:30 – 15:45: Pau Molet (ICMAB, Spain) <i>Ultrathin Semiconductor Superabsorbers from the Visible to the Near Infrared</i>	O
15:45 – 16:00: Guillermo Arregui Bravo (ICN2, Spain) <i>Anderson co-localization in GaAs/AlAs superlattices</i>	O
<i>16:00– 16:30: Coffee Break / Poster Session & Exhibition</i>	
16:30 – 17:00: Luis Liz-Marzan (CIC Biomagune, Spain) <i>Sharpening Plasmon Resonances in Gold Nanorods</i>	K
17:00 – 17:15: Cristiano Matricardi (Instituto de Ciencia de Materiales de Barcelona, Spain) <i>Gold Nanoparticle-based supercrystals as Surface Enhanced Raman Scattering (SERS) substrates</i>	O
17:15 – 17:30: Alessandro Principi (School of Physics and Astronomy, UK) <i>Low-loss bulk and edge plasmons in graphene heterostructures – a theoretical study</i>	O
17:30 – 18:00: Liberato Manna (IIT, Italy) <i>Halide Perovskites Nanocrystals: Synthesis, Transformations and their Application in Devices</i>	K
18:00 – 18:30: Adi Salomon (Bar-Ilan University, Israel) <i>Nanoporous Metallic Networks: A New Class of Materials</i>	K



THURSDAY (15/03/2018)

- 09:00 – 09:30: Alexander Kotlyar (Tel Aviv University, Israel) K
Selective Photoinduced Eradication of Cancer Cells by DARPin-Gold Nanoparticle Conjugates
- 09:30 – 10:00: Uri Sivan (Technion - Israel Institute of Technology, Israel) K
The Last Nanometer – Deep Look into the Hydration Structure of DNA and Solid Surfaces Using Ultra-High Resolution AFM
- 10:00 – 10:15: Raffaele Caroselli (Nanophotonics Technology Center, UPV, Spain) O
In-flow and in-continuum refractive index sensing using a highly sensitive porous silicon ring resonator
- 10:15 – 10:30: David Martin-Sanchez (NTC-UPV, Spain) O
Development and experimental study of a porous silicon fiber-optic temperature sensing probe
- 10:30 – 10:45: Ángela Ruiz Tórtola (Nanophotonics Technology Center, UPV, Spain) O
Photonic Bandgap Biosensing Structures Biofunctionalized with Molecular Beacon Probes
- 10:45 – 11:30: *Coffee Break / Poster Session & Exhibition*
- 11:30 – 12:00: Maya Bar-Sadan (Ben-Gurion university of the Negev, Israel) K
Correlating the Structure of 2D Materials with Their Catalytic Activity
- 12:00 – 12:30: Juan Carlos Cuevas Rodriguez (UAM, Spain) K
Super-Planckian Far-Field Radiative Heat Transfer
- 12:30 – 13:00: Francisco J. Garcia Vidal (UAM, Spain) K
Polaritons for Chemistry and Materials Science
- 13:00: Closing