

Mon 18/07

08:00-08:30 Welcome and workshop introduction

08:30-09:30	Andrea Alù	Engineered nonlocalities in optical metasurfaces: fundamentals and applications
09:30-10:00	Nicolas Bonod	Analysis of the optical response of Mie-resonant scatterers and metasurfaces via the singularities of the S-Matrix
10:00-10:30	Karim Achouri	Spatial Symmetries in Multipolar Metasurfaces
11:00-11:30	Rémi Colom	The topological origin of a universal 2π -phase retardation in non-Hermitian metasurfaces
11:30-12:00	Mahmoud Elsayy	Universal active metasurface control with ultimate performance in reflection
14:00-14:30	Alexandre Baron	Self-assembled meta-atoms and metasurfaces : Huygens multipoles and homogenization problems
14:30-15:00	Carlo Gigli	Fundamental limitations of Huygens' metasurfaces
15:30-16:00	Junsuk Rho	Breaking the capacity limit of metasurfaces using inverse design
16:00-16:30	Antonio Calà Lesina	Large-scale inverse design of dispersive nanophotonic structures
16:30-17:00	Adrien Borne	Modeling spontaneous photon-pair generation at the nanoscale

Tue 19/07

08:30-09:30	Federico Capasso	Recent advances in flat optics : from structured light and dark to metasurfaces for communications and high-volume applications
09:30-10:00	Alfredo De Rossi	Nanoscale Optical Parametric Sources
10:00-10:30	Aloyse Degiron	Optoelectronic metasurfaces for the spontaneous emission of structured light
11:00-11:30	Jelena Vukovic	Inverse design of large area integrated photonics and metasurfaces
11:30-12:00	Ivan Favero	Chains and arrays of resonators in optomechanics
14:00-14:30	Patrick Bouchon	Thermal emission of light by nanoantennas
14:30-15:00	Rita Asquini	Plasmonic metasurfaces and periodic nanostructures for nanophotonic biosensors
15:30-16:00	Christian Seassal	Metasurfaces and photonic mode engineering for photocatalysis
16:00-16:30	Mihail Petrov	Thermo-optical bistability enabled with high-Q states in all-dielectric nanostructures
16:30-17:00	Thomas Zentgraf	Cascaded metasurface holography for optical secret sharing

Wed 20/07

08:30-09:30	Shanui Fan	Nonlocal metasurface: topological physics and image processing applications
09:30-10:00	Beppe Della Valle	Ultrafast all-optical control of light with plasmonic metasurfaces
10:00-10:30	Jean-Michel Gérard	Ultrafast all-optical tuning of semiconductor microcavities and metasurfaces
11:00-11:30	Sébastien Cueff	Multilevel non-volatile tuning of metasurfaces with Phase-Change Materials
11:30-12:00	Dragomir Neshev	Tunable metasurfaces for amplitude and phase modulation
14:00-14:30	Michele Celebrano	Controlling the Second Harmonic Generation from nanoantennas and metasurfaces
14:30-15:00	Luca Carletti	Nonlinear frequency generation and reconfigurability in dielectric Mie-resonant nanostructures
15:30-16:00	Hai Son Nguyen	Quasi-BIC microlaser: beaming with style in active resonant metasurface
16:00-16:30	Christina Kyrrou	Liquid-crystal active metasurfaces
16:30-17:00	Stefano Maci	Self complementary metasurfaces

Thu 21/07

08:30-09:30	Anatoly Zayats	Tailoring optical field topologies with plasmonics and metamaterials
09:30-10:00	Tal Ellenbogen	Tailored THz generation by nonlinear metasurfaces
10:00-10:30	Olivier Martin	Nonlinear metasurfaces
11:00-11:30	Marco Finazzi	Nonlinear emission from plasmonic and dielectric nanoantennas by dual-beam pumping
11:30-12:00	Thomas Pertsch	LNOI quantum metasurfaces

Fri 22/07

08:30-09:00	Michele Tamagnone	Supercell metasurfaces for optoelectronic applications
09:00-10:00	Philippe Lalanne	Visual appearance of metasurfaces composed of Mie or plasmonic nanoresonators
10:00-10:30	Andrea Fratolocchi	Universal light encoders for next generation artificial intelligent hardware in optical systems and hyperspectral imaging
11:00-11:30	Antonio Ambrosio	Optical vortex crystals with dynamic topologies
11:30-12:00	Mario Agio	Optical properties of thin diamond membranes: opportunities for metasurfaces
12:00-12:30	Workshop conclusion	