

ONS September 12 - Hotel La Residenza - Capri

9:00-11:00	Registration
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La Residenza	
10:30-11:00	Welcome and Opening Remarks
11:00-11:40	Plenary Session I Roberto Saracco

La Residenza	
SESSION A1 (11:40-13.10)	
Plasmonics	
11:40-12:10 Anatoly Zayats (Invited Talk)	Hyperbolic metamaterials as a platform for quantum and nonlinear plasmonics
12:10-12:25 Otto Muskens; Martina Abb; Daniel Traviss; Yudong Wang; Kees De Groot; Pablo Albella; Javier Aizpurua	Hybrid plasmonics using transparent conductive oxides
12:25-12:40 Andrea Lovera; Shourya Dutta-Gupta; Arash Farhang; Pietro Mandracci; Fabrizio Giorgis; Olivier Martin; Emiliano Descrovi.	Strong coupling of a plasmonic antenna lattice with surface modes on a dielectric multilayer
12:40-12.55 Tigran Shahbazyan	Plasmon-enhanced photoluminescence from metal nanostructures.
12:55-13:10 Didier Felbacq; Brahim Guizal	Plasmon amplification in layered structures

13:10-15:00	Lunch break
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La Residenza	
SESSION A2 (15:00-16:30)	
Imaging I	
15:00-15:30 Stefano Cabrini (Invited Talk)	Nanofocusing with pyramidal structures
15:30-15:45 Natan T Shaked; Nir Turko; Anna Peled	Interferometric phase nanoscopy with molecular specificity.
15:45-16:00 Aniello Apuzzo; Mickael Février; Rafael Salas-Montiel; Aurélien Bruyant; Alexei Chelnokov; Gilles Lérondel; Béatrice Dagens; Sylvain Blaize.	Near-field interactions involved in gold nanoparticles chained by a silicon waveguide
16:15-16:30 Luis Grave de Peralta; Charles Regan; Daniel Dominguez; Ayrton Bernussi.	Far-Field Superlenses Based on Surface Wave Illumination

16:30-16:45	Coffee break
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La Residenza

SESSION A3 (16:45-18:15)

Imaging II

16:45-17:15 Andrea Aiello (Invited Talk)	The photonic wheel: demonstration of a state of light with purely transverse angular momentum via an optical nano-probing technique
17:15-17:30 Jung-Hoon Park; Yong Keu Park	Scattering super-lens: subwavelength light focusing and imaging via wavefront shaping in complex media
17:30-17:45 Luigi Lavanga; Edoardo De Tommasi; Anna Chiara De Luca; Principia Dardano; Mario De Stefano; Luca De Stefano; Ivo Rendina; Kishan Dholakia; Michael Mazilu.	Sub-diffractive light confinement by a single diatom valve using optical eigenmodes
17:45-18:00 Rafael Piestun	Multi-dimensional optical imaging beyond the diffraction limit
18:00-18:15 Sergey Stafeev; Victor Kotlyar	Subwavelength focal spot from Fresnel zone plate illuminated by linearly polarized light

18:15-20:00	Poster Session (joint with OMS'13)& Welcome Cocktail
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La Residenza

Poster SESSION (18:15-20:00), Joint with Oms'13

Francesco Pellegrino	Dicke model of grapheme cavity QED
Marcello Gombos	Optical Characterisation of Nd123 and Gd1212 Superconductors in the Normal State: Preliminary Studies for Plasmonics and Metamaterials Fabrication
Wen Dong	Visible-light photocurrent enhancement tuned with plasmonic resonance in Au nanoparticles/TiO2 composite films
Sahrish Rizvi	Organic-molecule-based single photons sources: sensing and communicating at the nanoscale.
Daniele Costantini	Directional and spectrally selective IR thermal emitters
Pasquale Ferrara	Depth resolved imaging of skin lesions
Christopher Arendse	Evolution of the structural, stress and optical properties of hydrogenated nanocrystalline silicon thin films fabricated by hot-wire CVD at different deposition pressures
Alessandro Ronca	Thylakoids: electro-chemical-mechanical nano-filters for light. A numerical model
Zhao Hongwei	Improving Illuminant Estimation by Entropy Weighting

September 13

La Residenza	
9:00-9:40	Plenary Session II Mark Stockman - Spaser in Quantum Regime

La Residenza	
SESSION B1(09:40-10:55)	
Plasmonics II	
9:40-10.10 Javier Aizpurua (Invited Talk)	Nanooptics in subnanometric plasmonic gaps: from single molecule imaging to quantum tunneling
10:10-10:25 Simon Felix; Agnes Maurel; Jean-Francois Mercier	Coupled wave analysis using a multimodal admittance
10:25 – 10:40 Antoine Canaguier-Durand; Aurélien Cuche; James Hutchison; Éloïse Devaux; Cyriaque Genet; Thomas Ebbesen	Plasmonic fields and optical forces
10:40-10:55 Natalia Dubrovina; Anatole Lupu; Xavier Le Roux; André de Lustrac	Plasmonic engineering of local effective index for transformation optics applications

10:55-11:15	Coffee break
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La Residenza	
SESSION B2 (11:15-13:00)	
Resonant Phenomena in Nanophotonics	
11:15-11.45 Luca Dal Negro (Invited Talk)	Materials and fields at the nanoscale: design and engineering of photonic-plasmonic resonant nanostructures
11:45-12:00 Agnes Maurel	Enhanced transmission through gratings: Compositional and geometrical effects
12:00 -12:15 Zhuo Chen	Multiple Fano resonances in monolayer metallic shells
12:15-12:30 Chen Yan; Olivier Martin	Periodicity can control coupling strength in a Fano lattice
12:30-12:45 Silvia Romano; Ivo Rendina; Stefano Cabrini; Vito Mocella	A new analysis of guided mode resonances in negative refracting photonic crystals
12:45-13:00 Qiang Bai; Mathias Perrin; Christophe Sauvan; Jean-Paul Hugonin; Philippe Lalanne	Efficient method for the analysis of light scattering and spontaneous emission enhancement by a nanoresonator
13:00-13:15 F. Romanato, M. Carli, P. Zilio, D. Garoli, M. Massari	Nano antennae focusing of OAM-plasmonic vortex

13:15-15:00	Lunch break
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La Residenza

SESSION B3 (15:00-16:45) Nano-engineered Materials and Devices	
15:00-15:30 Andrea Di Falco (Invited talk)	Synthetic optical materials for photonics applications
15:30-15:45 Neda Ghofraniha; Ilenia Viola; Giuseppe Gigli; Claudio Conti	Random laser from engineered nanostructures obtained by surface tension driven lithography
15:45-16:00 Richard Wollhofen; Moritz Wiesbauer; Kurt Schilcher; Jaroslaw Jacak; Thomas Klar	Applications of sub 100 nm STED Lithography in Nano- and Biophotonics
16:00 – 16:15 Bruce Wessels; Jianheng Li; Zhifu Liu	BaTiO ₃ Photonic Crystal Electro-Optic Devices for 50 GHz Applications
16:15-16:45 Pierre-Michel Adam	Nanoplasmonics and surface enhanced spectroscopies

16:45-17:00	Coffee break
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La Residenza

SESSION B4 (17:00-18:30) Plasmonics and Active Plasmonics	
17:00-17:30 Fabio Bovino (Invited Talk)	Plasmonics for quantum Information Processing
17.30-17.45 Daniele Costantini	A hybrid plasmonic semiconductor laser
17:45-18:00 Anne Laure Baudrion; Alessandro Veltri; Alexandre Bouhelier; Pierre-Michel Adam; Renaud Bachelot	Reversible strong coupling in silver nanoparticle arrays using photochromic molecules
18:00-18:15 Huibiao Liu; Yongjun Li; Yuliang Li	Water-Dispersed Quantum Dots of Coordination Polymers with Strong Photoluminescence
18:15 – 18:30 Sachin Kasture; Prasanta Mandal; Venu Gopal Achanta	Near Dispersionless modes and anti-crossings of in-plane surface plasmon modes in 3-layer structure with 2-d dielectric pattern on top
18:30-18:45 Arrigo Calzolari; Alice Ruini; Alessandra Catellani	Near-infrared plasmonic activity in In-doped ZnO nanowires

20:30	Social Dinner
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September 14

La Residenza

9:00-9:40	Plenary Session III (OmS'13) t.b.a.
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SESSION C1(9:40-10:55) Nano-engineered Materials and Devices II	
9:40-10:10 Zeno Gaburro (Invited Talk)	Engineering metacrystals and flat optics with Bragg, Fermat, Huygens and Fresnel law
10:10-10:25 Gianluca Ruffato; Elisabetta Pasqualotto; Agnese Sonato; Gabriele Zacco; Davide Silvestri; Margherita Morpurgo; Alessandro De Toni; Filippo Romanato	Innovative sensing architectures based on symmetry breaking of grating-coupled surface plasmon resonance
10:25-10:40 Alex Baron; Antonio Iazzolino; Kévin Ehrhardt; Jean-Baptiste Salmon; Ashod Aradian; Vasyl Kravets; Alexander Grigorenko; Jacques Leng; Aurélie Le Beulze; Mona Treguer-Delapierre; Miguel A. Correa-Duarte; Philippe Barois	Bulk Optical Metamaterials by Microfluidic Evaporation
10:40-10:55 Concita Sibilìa	Second harmonic generation characterization of Au plasmonic nanoparticles on top of a monolayer of self-ordered dielectric nanospheres

10:55-11:15	Coffee break
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SESSION C2 (11:15-13:15) Dielectric Nanophotonics	
11:15-11:45 Henri Benistry (Invited Talk)	PT-symmetric behavior arising in two coupled hybrid plasmonic-dielectric guides or in separate hybrid and dielectric guides.
11:45-12:00 Angelo Angelini; Emanuele Enrico; Natascia De Leo; Peter Munzert; Luca Boarino; Francesco Michelotti; Fabrizio Giorgis; Emiliano Descrovi	Photon management by Bloch Surface Waves on structured one dimensional photonic crystal
12:00-12:15 Libo Yu; Elsie Barakat; Hans Peter Herzig	Experimental characterization of waveguide directional coupler on Bloch Surface waves sustaining multilayer
12:15-12:30 Edoardo De Tommasi; Anna Chiara De Luca; Silvia Romano; Stefano Cabrini; Ivo Rendina; Vito Mocella	Plasmon-like surface states in negative refractive index metamaterials: towards all-dielectric, loss-free nanophotonic platforms
12:30-12:45 Paul Leu	Light Trapping with Nanospheres in Solar Cells
12:45-13:00 Sophie Fasquel	Frequential and temporal analysis of two-dimensional photonic crystals for absorption enhancement in organic solar cells
13:00-13:15 Otto Muskens; Tom Strudley; Tilman Zehender; Erik P.A. Bakkers	Mesoscopic light transport near Anderson localization in semiconductor nanowire mats

13:15-15:00	Lunch break
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SESSION C3 (15:00-16:30) Nano-engineered Materials and Characterization	
15:00-15:30 Adriana Passaseo (Invited Talk)	Nano-helices by Focused Ion Beam Induced-Deposition as Chiral Metamaterial in the NIR-VIS range
15:30-15:45 Yia-Chung Chang; Huai-YiXie; Rakesh Moirangthem	Spectroscopic Ellipsometry biosensing by using coupled plasmonic nanospheres
15:45-16:00 Anna Sytchkova; Danilo Zola; Marco Angelo Giambra; Maria Luisa Grilli; Angela Piegari	Total Internal Reflectance Ellipsometry for Metal-Dielectric Interfaces
16:00-16:15 Luis Froufe-Pérez; Ramón Paniagua-Domínguez; Diego R. Abujetas; Juan J. Sáenz; José A. Sánchez-Gil	Broadband telecom transparency of semiconductor-coated metal nanowires: more transparent than glass
16.15-16:30 Yuliang Li	Controlling growth of molecular crystal aggregates for efficient optical waveguides
16.30-16:45 Gianluigi Zito; Alden Dochshanov; Giulia Rusciano; Giuseppe Pesce; Antonio Sasso	Surface-enhanced Raman analysis of red blood cell membrane with high spatially-reproducible nano-patterned substrate obtained by block-copolymer self-assembly

16:45-17:00	Lunch break
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SESSION C4 (16.45-18.30) 7 talks Field Enhancement and Nanophotonics Applications II	
17:00-17:30 Davide Boschetto (Invited Talk)	Coherent phonon spectroscopy of the shearing mode in bilayer and few-layer graphene
17:30 – 17:45 Otto Muskens; Martina Abb; Timmo Van derBeek; Thomas Wellens	Reciprocity breaking in a photonic material caused by ultrafast nonlinear dynamics
17:45-18:00 Yongjun Li; Huibiao Liu; Yuliang Li	Solid Supramolecular Architecture of a Perylene Diimide Derivative for Fluorescent Enhancement
18:00-18:15 Lucia Petti; Massimo Rippha; Rossella Capasso; Giuseppe Nenna; Anna De Girolamo Del Mauro; Maria Grazia Maglione; Giuseppe Pandolfi; Carla Minarini	Polymeric photonic crystal electrode to be used in flexible organic LED structures
18:15-18:30 N. Chikhi, M. Lissitskii, V. Tkachenko, A. Andreone	Spatial light modulators based on hybrid metamaterials
18:45-19:00 Seong Soo Choi	Study on Physical Mechanism of Au Nanopore Formation
19:00-19:15 Stefano Sanguinetti; Sergio Bietti; Lucia Cavigli; Marco Abbarchi; Giovanni Isella; Jacopo Frigerio; Cesare Frigeri; Anna Vinattieri; Massimo Gurioli	GaAs/AlGaAs Single Photon Emitters by Droplet Epitaxy on Si

September 14 Joint Session

Hotel La Palma

SESSION I1 (11:30-12:50) Room: <i>Pagano</i> Silicon Photonics (joint with OMS'13)	
11:30-11:50 Goran Mashanovich (<i>Invited Talk</i>)	
11:50-12:10 Lorenzo Colace	t.b.a
12:10-12:30 Matthieu Roussey	Highly integrated photonic crystal - slot waveguide cavity
12:30-12:50 Roman Bruck	Plasmonic nano-antennas as integrated coherent absorbers on SOI waveguides for modulators and all-optical switches
12:50-13:10 Elsie Barakat	Micro-resonators on Bloch surface waves sustaining multilayer