

	_							
	Emerg	ing technologies: metan			Specia	al Session - Optica	al biosensing and imaging: from fundamentals to	
			insulator I		L			applications
		Boubacar					Katerina Kusova	
		Kanté University of					Institute of Physics of	
		California Berkelev.					Sciences, Czech	Silicon nanocrystals: indirect- and direct-
14:30	14:50 Invited	USA Topolo	ogical sources of light	14:30	14:50	Invited	Republic	bandgap luminescent material
		Didier Felbacq Amala	rahmaia maamatmy annmaaah ta nhatania				Anna Chiara De	Daman microscopy for collular investigations:
14:50	15:10 Invited	Ollivei Site de	jebraic geometry approach to photonic	14:50	15:05	Oral	Luca	Raman microscopy for cellular investigations:
14.50	13.10 IIIViteu	Montpellier, France topolo	ogical insulators	14.50	15.05	Orat	CNR-IBBC, Italy Maria	from cell identification to imaging
		Duals	surface-enhanced fluorescence imaging				Francesca	
			tra-high FOM sensing in all-dielectric				Santangelo	Real time ATP bioluminescence monitoring on 3D
15:10	15:25 Oral	Sittia itoiliallo	surfaces	15:05	15:20	Oral	CNR-IMM, Italy	printed LoC by highly sensitive SiPM
		Haman Ali	ar dichroism from sickle-shaped chiral				,	, , , , , , , , , , , , , , , , , , , ,
		College of Physical	material structure operating in the mid-				Paola Ceroni	Luminescent silicon nanocrystals as bioimaging
15:25	15:40 Oral	Science and	ed region	15:20	15.7.0	Invited	University of Bologna,	probes
15:40	16:10		Coffee break	15:40	16:10	iliviteu	Italy	Coffee break
10.40			ntum dots, perovskite nanostructures, 2D	13.40	10.10	Snecia	al Session - Ontica	al biosensing and imaging: from fundamentals to
	Mater	•	anomaterials			эрсск	ar session optice	applications
		Davide	anomateriate		1		Francesca	applications
		Roschetto					Santoro	
47.45		École Polytechnique, Iransi	ient non thermal state and coherent phonon	4.44	4		Italian Institute of	
16:10	16:30 Invited		ning in prototype Mott compound V_2O_3	16:10	16:30	Invited	Technology, Italy	Interfaces in 3D bioelectronics
		Felice Gesuele Multi-	imaging analysis of exciton states in					
		Università degli Studi di Napoli monol	layer transition metal dichalcogenides and				Bruno Miranda	From rigid to flexible plasmonic sensors for
16:30	16:45 Oral	Federico II, Italia van de	er Waals heterostructures	16:30	16:45	0ral	CNR-IMM, Italy	biomedical applications
							Romuald	
							Houdre	
							Ecole Polytechnique Fédérale de	Gram-type Differentiation via statistical analysis
		Anna Vinattieri Non-li	inear exciton dynamics in CsPbBr3				Lausanne,	of optically trapped bacteria in hollow photonic
16:45	17:00 Oral	INSTM -Firenze, Italy nanom	netric thin films	16:45	17:00	Oral	Switzerland	crystal cavities
			route to large-area thin film deposition of					
		114011111 4151111	anic perovskites: RF-Magnetron sputtering				Sterano Lettien	Toward unconventional TiO2-based optodes for
17:00	17:15 Oral	INSTM-Firenze, Italy depos	ition of CsPbBr3	17:00	17:15	Oral	CNR-ISASI, Italy	oxygen detection
		Tomasz					Chiana	
		Czyszanowski Monol	lithic deep-subwavelength grating as				Chiara Schiattarella	Time-gated imaging of luminescent microporous
17:15	17:30 Oral	Louz offiver sity of	parent electrode of polarized light	17:15	17:30	Oral	CNR-IMM, Italy	silicon nanoparticles in living Hydra polyps
		1	, ,				, , ,	
					L		Johannes	Smart Optics
							Feldmann	All-optical neural networks with phase-change
							University of	photonics
				17:30	17:50	Invited	Muenster, Germany	

			17:50	18:05 <mark>0ral</mark>	Supicited Offiver Sity of	Stigmergic reinforcement learning using all- optical solitonic x-junctions					
			18:05	18:20 <mark>Oral</mark>	Inmmachicarnia	Towards an effective inverse design of artificial materials based devices through the Scattering Matrix Method					
18:30	20:00	Poster Session	on and	Welcome Co							
		Pasquale	raphic Microscopy								
		Teresa Crisci Near-in CNR-IMM, Italy wavegu		Erbium/Sil	icon Schottky photod	etectors integrated with a silicon-on-insulator					
		Pasquale Memmolo Identific CNR-ISASI, Italy	lo Identification and classification of anemic erythrocytes by Holographic Learning , Italy Fazio _{niversity} Active Reflection and Refraction of Soliton Waveguides on Electric Interfaces								
		Eugenio Fazio Sapienza University Active R of Rome, Italy									
		of Rome, Italy	Lovecchio Sapienza University Electrowetting-based Lab-on-Chip System for Biosensing Applications								
		CNR-ISASI, Italy									
		of Rome, Italy	on of Fl	uorescence	e-based Aptamer Ass	say Through Thin Film Optoelectronic					
		Italy high vac	nance (of a solar the	ermal collector based	d on Compound Parabolic Concentrator under					
		Ota Kunt Dresden Integrated Center for Applied Physics, Germany Exception Maurizio	onal po	oints in k-sp	ace optically anisotro	opic microcavities					
		Artoni University of Brescia, Italy Color Er	ntangle	ement in Me	tamaterials						

			Tuesday, September 10th									
9:15	10:00			Plenary II: Graham R	eed, Uni	versity	y of Sout	hampton, UK				
				Nanophotonics I			Sp	•	pace exploration and Human spaceflight: new es for photonic and microsystems			
10:00	10:20	Invited	Marco Centini Sapienza, University of Rome, Italy	Revisiting the Yagi-Uda Nanoantenna Design for Tailored Infrared Thermal Radiation	10:00	10:20	Invited	Maria Antonietta Ferrara CNR-IMM, Italy Izabela				
10:20	10:35	Oral	univapou i euchicon,	Full-Wave Mode Hybridization in Nanoparticle Dimers	10:20	10:35	Oral	Naydenova Technological University Dublin, Ireland	Photopolymer microstructures created by holographic recording for application in sensing and light shaping and redirection			
10:35	10:50	Oral	Czajkowski University of Warsaw, Poland	Multipole analysis of amorphous arrays of dielectric nanoresonators	10:35	10:50	Oral	Stefano Guido University of Naples "Federico II", Italy Christophe	Blood-on-chip microfluidics for biomedical applications in space			
10:50 11:05	11:05		Dominika Świtlik University of Warsaw, Poland	On using bulk sensitivity parameters of single plasmonic nanodisks to quantify local layer thickness and refractive index	10:50	11:05		Minetti Université libre de Bruxelles, Belgium	Hydrodynamics of a large population of Red Blood Cells under shear flow with Digital Holographic Microscopy			
11:05	11:30			Coffee break	11:05	11:30			Coffee break			
		Emer	ging technologies:	metamaterials, nonradiating modes, topological insulator II	Special Session - Space exploration and Human spaceflight: new challenges for photonic and microsystems							
11:30	11:50	Invited	Andrea Di Falco University of St Andrews, UK	Flexible holographic metasurfaces	11:30	11:50	Invited	European Space Agency, Netherlands	European space strategies for future space human explorations			
11:50	12:05	Oral		Optical magnetism in self-assembled metamaterials	11:50	12:05	Oral	Monica Monici University of Florence Italy Gemma Rius	NIR laser therapy by MLS- Mis device for treating neuropathic pain Customized micro and nano technologies to			
12:05	12:20	Oral	Concita Sibilia Sapienza, University of Rome, Italy	Enantioselectivity of chiral molecules on asymmetric hole array substrate	12:05	12:20	Oral	Institute of Microelectronics of Barcelona, Spain	enable new miniaturized platforms and components for Space exploration			
12:20	12:35	Oral	Michael Mazilu University of St Andrews, UK	Optical eigenmodes description of photon eigenstates	12:20	12:35	Oral	Tianheng Zhao University of Cambridge, UK	Printing of Responsive Photonic Cellulose Nanocrystal Micro-Film Arrays as humidity sensors			
					12:35	12:50	Oral	Vanja Miskovic Universite libre de Bruxelles, Belgium	Flexible Liquid Crystal Temperature Monitoring System for monitoring the Wound Healing Process			
					12:50	13:05	Oral	Aniello Pelella CNR-IMM, Italy	Remote electrical powering over Fiber Optics in Space environment			
13:00	14:30				Lun	ch						

Special session - Waves in Complex Photonic Media: Fundamentals a Device Applications I	Special Session - Optical Systems for Solar Energy
Claudio Conti Universita'di Roma 14:30 14:50 Invited La Sapienza, Italy Ising machines by spatial light modulators	Elisa Sani Novel materials for sunlight absorption and 14:30 14:50 Invited CNR-INO, Italy energy transfer
Lucio Andreani University of Pavia, 14:50 15:10 Invited Italy Slow Light to Reduce the Energy Dissipation Mach-Zehnder Modulators in Silicon Photon	Davide De Maio
Francesco Riboli Information Entropy of the Local Density of S 15:10 15:30 Invited CNR-INO, Italy in 2D disordered photonic systems	tes Peter Bermel Purdue University, 15:05 15:25 Invited United States Ultra-high efficiency compact solar modules enabled by photonic superprisms
15:30 16:00 Coffee break	15:25 15:55 Coffee break
Special session - Waves in Complex Photonic Media: Fundamentals a Device Applications I	Special Session - Optical Systems for Solar Energy
Uwe Grimm The Open University, 16:00 16:20 Invited Walton Hall, UK structures	Salvatore Lombardo Bifacial Si heterojunction solar cells: impact of defects and optimization of bifaciality
Marcel Filoche École polytechnique, Modeling light absorption and emission in 16:20 16:40 Invited France disordered GaN-based semiconductors	Carmine D'Alessandro An instrument to evaluated Selective Solar 16:15 16:30 Oral CNR-IMM, Italy Absorber properties in operating conditions
Cefe López Instituto de Ciencia de Materiales de 16:40 17:00 Invited Madrid, Spain laser networks	Imaging and spectroscopy
Marco Leonetti Istituto Italiano di Transverse localization of light, applications,	Valerio Pruneri Large field of view imaging with classical and 16:30 16:50 Invited ICFO, Spain quantum light
	Andrea Experimental study on the use of a Time-of-Flig Caroppo depth-camera for facial expression recognition 16:50 17:05 Oral CNR-IMM, Italy in the field of AAL
	Strategies based on Surface and Tip Enhanced Roberto Pini Raman Spectroscopy for detection and study of
	17:05 17:25Invited CNR-IFAC, Italy Alzheimer's biomarkers Filippo Causa University of Naples 17:25 17:40 Oral Federico II, Italy imaging technique
	David Label-free investigation and separation of cells Using coherent imaging techniques and
	17:40 17:55Oral _{Tecnologia, Italy} viscoelastic forces

				Lab-on-chip devices
17:55 18:10	18:10 18:25	Oral Oral	Nicola Lovecchio Sapienza University of Rome, Italy Sara Coppola CNR-ISASI, Italy	Lab-on-Chip System for Electrochemiluminescence Detection Based on Thin/Thick Film Technologies Pyro-electric effect for designing microfluidic chip and micro-optical components
10.10	10.23	Orat	CINK-ISASI, Italy	micro-optical components
Social di	inner			

		Wednesday, September 11th										
9:00	9:45			Plenary III: Alberto Dias	spro, Na	noscopy, IIT-C	HT Erzelli, Italy					
				Nanophotonics II				Optical cavities sensors				
9:45	10:05	Invited	Francesco Banfi Université Lyon 1 and CNRS, France Femius Koenderink	Photoacoustic investigation of nanogranular ultra-thin films	09:45	10:05 Invited	Yves-Alain Peter Polytechnique Montreal, Canada	Sensing and Tuning with Optical Microresonators on Chip				
10:05	10:25	Invited	Center for Nanophotonics, AMOLF, The Netherlands Stefano Trillo	Phase and polarization-resolved radiation patterns of single nano-objects and embedded eigenstates Topographic fibers: a platform for fundamental	10:05	10:25 Invited	Gianluca Gagliardi CNR-INO, Italy Marco Pisco	Optical sensing and opto-mechanics with liquid droplet microresonators Lab-on-fiber accelerometers using micro-				
10:25	10:45	Invited	University of Ferrara, Italy	physical phenomena	10:25	10:40 Oral	University of Sannio, Italy	mechanichal structure				
10:45	11:00		Shuwen Chen National University of Defense Technology,	Squeezing of light with pyramidal horn nanoantenna	10:40	11:00 <mark>Invited</mark>	Maurizio Casalino CNR-IMM, Italy	Near-Infrared Resonant Cavity Enhanced Graphene/Silicon Photodetectors				
11:00	11:30		1:1:	Coffee break	11:00	11:30		Coffee break				
	Ĺ		Light-matter in	teractions: emission, sensing, imaging II				Digital holography				
11:30	11:50	Invited	Tecnologia, Italy Fabio Antonio	Microscopic response of large plasmonic systems via quantum hydrodynamic theory: application to strong light-matter interactions Coherence and simmetry properties of the Stokes vector of the photoluminescence	11:30	11:50 Invited	Fernando Mendoza Centro de Investigaciones en Optica, A.C., Optical Metrology, Mexico	Digital Holographic Interferometry with photons and electrons: looking at cells and nano materials				
11:50	12:10	Invited	Offiver Sita at Northa La	generated by a periodic array of aluminum nanoantennas	11:50	12:05 <mark>0ral</mark>	Lisa Miccio CNR-ISASI, Italy	Photorefractive materials to interface biological samples				
12:10	12:25	Oral	John Bigeon Institut Foton, Univ Rennes, , France Xavier Zambrana- Puyalto	Deep-red photoluminescence waveguiding in centimeters-long hybrid active microwires	12:05	12:20 Oral	Teresa Cacace CNR-ISASI, Italy	Compact modules for digital holographic microscopy in microfluidics				
12:25	12:40	Oral	Istituto Italiano di Tecnologia, Genova,	Probing light-matter interactions with vortex beam-induced circular dichroism	12:20	12:35 <mark>0ral</mark>	Silvio Montresor Le Mans University, France	A deep learning based algorithm applied to the processing of phase data in digital holography				
12:40	12:55	Oral	Li Wang Beijing University of Technology, China	Dual - parameter measurement for connecting of PCF and FBG with temperature - pressure by Sagnac interferometer	12:35	12:50 <mark>0ral</mark>	Lisa Miccio CNR-ISASI, Italy	Label-free morphological biomarkers for early diagnosis in oncology				
13:00	14:30				Lun	ch						

					_				
									Optical manipulation
		Speci	al session: Waves	s in Complex Photonic Media: Fundamentals and Device Applications II					
			Jacopo Bertolotti University of Exeter,					Mercedes Carrascosa Universidad Autónoma de Madrid,	Manipulation, trapping and splitting of water and aqueous bio-droplets by photovoltaic
14:30 1	14:50	Invited	UK Romolo Savo	Blind Ghost Imaging	14:30	14:50	Invited	Spain Stefania	optoelectronic tweezers
14:50	15:10	Invited	ETH Zurich, Switzerland Fabrizio	Second harmonic generation in complex assemblies of oxides nanoparticles	14:50	15:05	Oral	Privitera CNR-IMM, Italy Alessandro	Photo-electrochemical water splitting through silicon based photovoltaics
15:10 °	15:30	Invited		3D light localization in hyperuniform sub- random media	15:05	15:25	Invited	Busacca Università degli Studi di Palermo, Italy Eljesa Murtezi	to be defined Controlling the photochemistry: Photo-oxidation
					15.25	1E./0	0	Johannes Kepler Universität Linz,	confined to the nanoscale via stimulated
15.00	17.00			0 " 1 1	15:25	15:40		Austria	emission depletion
15:30	16:00			Coffee break	15:40	16:00			Coffee break
		Speci	al session: Waves	s in Complex Photonic Media: Fundamentals and Device Applications II				Special ses	sion: Optical Quantum Technologies
16:00	16:20	Invited	Filippo Caruso LENS, Firenze, Italy Amit Agrawal	to be defined	16:00	16:20	Invited	Lorenzo Colace University Roma Tre, Italy	Colloidal Quantum Dots: materials, technology and application prospects
16:20	16:40	Invited	The National Institute of Standards and Technology (NIST),	Spatiotemporal Shaping of Optical Fields Using Metasurfaces	16:20	16:35	Oral	Mikhail Lisitskiy CNR-ISASI, Italy	A superconducting quantum network as a platform for quantum simulation of complex magnetic systems Superconducting Nanowire Single Photon
					16:35	16:50	Oral	Mikkel Ejrnaes CNR-SPIN, Italy	Detectors: properties, applications and recent developments
					16:50	17:05	Oral	Massimo Rippa CNR-ISASI, Italy Bartolomeo	Plasmonic devices Rotavirus detection by Octupolar Functionalized LSPR Nanosensors
					17:05	17:20	Oral	Della Ventura Politecnico di Milano, Italy	Plasmonic Enhanced Fluorescence for Multiplexing Biosensing Optical Fiber Meta-Tip: a Novel Platform for
					17:20	17:35	Oral	Marco Consales University of Sannio, Italy Armando	Highly Sensitive Detection of Molecular Interactions
					17:35	17:50	Oral	Ricciardi University of Sannio, Italy	Smart Microgels for Lab on Fiber Technology