

Italian National Conference on the Physics of Matter including the SILS and SISN conferences

Trieste, October 1 - 5, 2017

Conference Chairs:

Ezio Puppin (CNISM) Corrado Spinella (DSFTM - CNR) Stefano Ruffo (SISSA)

CONFERENCE PROGRAM

SPRINGER NATURE







Scientific Committe

(Chair) Massimo Capone (SISSA)

Laura Ballerini (SISSA) Riccardo Bertacco (PoliMI) Federico Boscherini (UniBO) Raffaella Burioni (UniPR) Carlo Carbone (CNR-ISM) Pietro Carretta (UniPV) Loredana Casalis (Elettra) Francesco Cataliotti (LENS) Giovanni Comelli (UniTS) Rosario Fazio (ICTP, SNS) Giacomo Ghiringhelli (PoliMI) Paolo Giannozzi (UniUD) Silvano Lizzit (Elettra) Claudio Masciovecchio (Elettra) Cristian Micheletti (SISSA) Alberto Morgante (CNR-IOM, UniTS) Fulvio Parmigiani (UniTS) Francesco Priolo (UniCT) Giorgio Sberveglieri (UniBS) Lucia Sorba (CNR-NANO) Sandro Sorella (SISSA) Nicola Spinelli (UniNA) Pierluigi Veltri (Unical) Emanuela Zaccarelli (CNR-ISC) Scientific Secretariat

Steering committee

Massimo Capone, Antonella Tajani, Ezio Puppin, Rosario Fazio, Giacomo Ghiringhelli, Lucia Sorba, Corrado Spinella, Stefano Ruffo

Organizing local committee

(Chair) Loredana Casalis (Elettra)

Cristina Africh (CNR-IOM), Carlo Callegari (Elettra), Cinzia Cepek (CNR-IOM), Ali Hassanali (ICTP), Daniele Fausti (UniTS), Andrea Goldoni (Elettra), Nicola Seriani (ICTP), Alessandro Silva (SISSA)

	Sunday 01	Monday 02	Tuesday 03	Wednesday 04	Thursday 05	Friday 06
09:00 - 09:30 09:30 - 10:00		Francesco Sciortino	Giulia Galli	Andrew Millis	Robert Feidenhans'	
10:00 - 10:30 10:30 - 11.00		Coffee break	Coffee break	Coffee break	Coffee break	
11.00 - 11.30						Prosecution of SILS and
11.30 - 12.00		Parallel sessions	Parallel sessions	Parallel sessions	Parallel sessions	SISN conferences
12.30 - 13.00						
13.00 - 13.30	Devicement					
13.30 - 14.00	Kegistration	1 1	Tt.	Th	Th	
14.00 - 14.30	Opening	Luncn	Luncn	Luncn	Luncn	
14.30 - 15.00	I otho V on tor local and the T					
15.00 - 15.30	Laula V Clikatalallall				Doubled concious	
15.30 - 16.00	Coffee break and poster	Parallel sessions	Parallel sessions	Round table	rarallel sessions	
16.00 - 16.30	session					
16.30 - 17.00						
17.00 - 17.30		Coffee break and poster	Coffee break and poster	Coffee break and poster	Mondol ShoM	
17.30 - 18.00	Parallel sessions	session	session	session	IVIALK JUILISUL	
18.00 - 18.30		Alhart Fart	I aurane Molanbann	Mara Mazard	Alberto Disenso	
18.30 - 19.00		MUCHTER	Laurens MUUGUKAIIIP	INTALC INICZATU	AUGUN DIASPIU	
19.00 - 19.30				Andrei Vorlomon	Cond here worder	
19.30 - 20.00	v 101a v ugei				OUOU UYE PAILY	
20.00 - 20:30	Walcome worki		Cocial dinner			
20.30 - 21:00	wercome party					



Conference rooms location

Budinich Lecture Hall Euler

SISSA D SISSA A SISSA B SISSA lecture hall

Kastler Infolab Leonardo building (1) Leonardo building (1)

Former SISSA building (2) Former SISSA building (2) Former SISSA building (2) Former SISSA building (2)

Adriatico guesthouse (6) Adriatico guesthouse (6)

Plenary sessions

All the plenary sessions will take place in the Budinich Lecture Hall located in the Leonardo building

Sunday, October 1

14:30-15:30 Latha Venkataraman	Columbia University (USA)
	Electron Transport in Single-Molecule Circuits
19:00-20:00 Viola Vogel	ETH Zurich (Switzerland)
19.00-20.00 Viola Voge i	
	Fighting bacterial infections: the nanomechanics of a
	macrophage attack
	Monday, October 2
09.00-10:00 Francesco Sciortino	Università La Sapienza (Italy)
	Unconventional collective behaviour of DNA – made
	nanoparticles
18:00-19:00 Albert Fert	Université Paris – Sud (France)
	From topology to devices: magnetic skyrmions, topological
	Materials and applications
	Tuesday, October 3
09:00-10:00 Giulia Galli	University of Chicago (USA)
	Materials discovery and scientific design by computation:
	what does it take?
18:00-19:00 Laurens Molenkamp	Universitaet Wuerzburg (Germany)
ľ	Topological Physics in HgTe - based Quantum Devices
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Wednesday, October 4

09:00-10:00 Andrew Millis	Columbia University (USA)
	Meeting Dirac's Challenge: solution of the Correlated
	Electron Problem
18:00-19:00 Marc Mezard	Ecole normale supérieure (France)
	Information theory, data science and the curse of phase
	transitions
18:00-19:00 Andrey Varlamov	SPIN – CNR (Italy)
	Alex Abrikosov: the outstanding representative of the Landau
	school
	Thursday, October 5
	Thursday, October 5
09:00-10:00 Robert Feidenhans'l	Thursday, October 5 European XFEL (Germany)
09:00-10:00 Robert Feidenhans'l	European XFEL (Germany)
09:00-10:00 Robert Feidenhans'l	
09:00-10:00 Robert Feidenhans'l 17:00-18:00 Mark Johnson	European XFEL (Germany)
	European XFEL (Germany) New opportunities at the European XFEL
	European XFEL (Germany) New opportunities at the European XFEL ILL (France)
	European XFEL (Germany) New opportunities at the European XFEL ILL (France)
17:00-18:00 Mark Johnson	European XFEL (Germany) New opportunities at the European XFEL ILL (France) Italy and the ILL:two decades of successful collaborations

Nanostructures and Nanotechnologies I				
Chairman: Lucia	a Sorba	Room	Budinich	
Ilaria Zardo	(Inv) Nanophononics: p	phonon engineering and manipulation	on	
Sergio D'Addato	Physical synthesis studies	of metal@oxide, core@shell nanop	particles: two case	
Jacopo Stefano Pelli Cresi	Contraction and s	ize effects in cerium oxide nanopart	icles	
Alberto Milani	Carbon-atom wire semiconductor-to-	es with sp2 conjugated end groups: i metal transition	tuning the	
Francesco Basso Basset	Droplet epitaxy GaAs nanostructures as ideal entangled photon sources for hybrid quantum networking		ed photon sources for	
Silvia Rubini <i>Te doping of GaAs nanowires grown by MBE: an efficient pathway tow the fabrication of single-wire devices</i>			cient pathway toward	
Marcello Righetto Spectroscopic Insights into Carbon Dots Systems				
Carmine Antonio Perroni				
Morone Antonio	Laser Deposition	of Magnetic Nanoparticles		

Biomedicine and Biophysics I

Chairman:	Silvia Onesti	Room	Euler
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Giovanni Dietler (In	nv) Nanomotion Detection of Cells and Bacteria
Espedito Vassallo	Bactericidal activity of nanopatterned surfaces by plasma process
Pietro Parisse	Biophysical analysis of extracellular vesicles
Francesco D'Amico	A complete UV Resonant Raman scattering characterization of deoxycytidine triphosphate: towards the best experimental conditions to detect DNA cytosine methylation
Paolo Zucchiatti	Collective Enhanced IR-SR Absorption (SR-CEIRA) microscopy for conformational studies of protein of biomedical interest

Stefano Bettati	STRUCTURAL CHARACTERIZATION OF CYSTEINE SYNTHASE ENZYMATIC COMPLEX BY PROTEIN PAINTING AND SAXS
Nicola Galvanetto	Unfolding proteins from neuronal membranes
Caterina Ricci	<i>Hsp60: a study of stability and structure to understand its function and potentialities</i>
Fabrizio Bardelli	Combined phase-contrast and fluorescence tomography on asbestos bodies in human lungs

Photonics and Quantum Information I

Chairman:	Elisabetta Paladino	Room	SISSA D
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Massimo Palma	(Inv)	Collision models of open quantum systems
Elisabetta Paladino	(Inv)	Quantum control of noisy hybrid quantum networks
Sandro Wimberger		Classical synchronization indicates persistent entanglement in isolated quantum systems
David Vitali		Enhancement of optomechanical interactions by feedback-controlled light
Francesco Tacchino		Autonomous quantum machine for steady state entanglement generation via bath engineering
Costanza Toninelli		Quantum technologies with photostable molecule on-chip
Alberto Ghirri		Coherently coupling molecular spins to microwave photons: first steps towards integration of molecular spin qubits into superconducting circuits
Rosario Lo Franco		Utilizable entanglement from indistinguishable particles

Matter in Extreme and metastable conditions

Chairman: Sand	lro Sorella	Room	SISSA A
Mikhail Eremets	(Inv) Conductive and po temperatures belo	ossibly metallic hydrogen at pressur w 200 K	es above 350 GPa and
Carlo Pierleoni	Coupled Electron- conditions	-Ion Monte Carlo study of hydrogen	under extreme
Francesco Capitani	Infrared Spectroso	copy of H3S	
Boby Joseph	• •	essure-induced structural phases in l diffraction and Raman study up to 1	· ·

Guglielmo Mazzola	Quantum simulations of the hydrogen-helium mixture metallization at Jupiter interior conditions
Lorenzo Ulivi	Properties of ice XVII, a newly discovered metastable form of ice
Mauro Palumbo	A theoretical investigation of the transition in tin

Photonics for health

Chairman:	Andrea Farina	Room	SISSA B
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Paola Taroni	(Inv) Time domain diffuse optical spectroscopy of tissue composition for in vivo clinical diagnostics
Giovanni Romano	Ingestible capsule for minimally-invasive intragastric photodynamic therapy against Helicobacter pylori
Antonella Battisti	Investigation of Helicobacter pylori endogenous porphyrins as photosensitizers for intragastric PDT
Anurag Behera	Study of optimal measurement conditions for time-gated diffuse optics systems
Davide Janner	Resorbable glass capillaries for combined light delivery
Pranav Lanka	Understanding the effect of inter-subject variability and layer geometry on the assessment of brain oxygenation
Antonino Parisi	A Novel Advanced Pattern Recognition Pipeline for Photoplethysmography (PPG) measurements

Fluids and Soft Matter I

Chairman:	Veronique Trappe	Room	Kastler
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Primoz Ziherl	(Inv) Bronze-mean hexagonal quasicrystal
Emanuele Locatelli	Condensation and Demixing in solutions of DNA Nanostars and their Mixtures
Valentina Nigro	Unconventional Behaviour of Soft Multi-Responsive Microgels
Lorenzo Rovigatti	Towards a realistic description of computer-generated nano- and microgels: assembly protocol, form factors, density profiles and swelling curves of single soft particles
Barbara Rossi	Investigation of the structural and molecular response in pH- sensitive hydrogels by the joint use of UV and neutron scattering techniques
Tatjana Skrbic	Is Funneled Landscape of Proteins really explicitly sequence-dependent?

Federico Fadda	Switching dynamics in cholesteric liquid crystal emulsions
Stefano Bellissima	The mark of hydrogen-bond interactions in liquid methanol dynamics
Michela Ronti	Low-Temperature Branched Structures of Dipolar Hard Spheres

Plasma Physics I

Chairman:	Pierluigi Veltri	Room	Infolab
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Vincenzo Carbone	(Inv) Space Weather events in space plasmas
Marco Velli	(Inv) The plasma physics of solar activity and the origins of the Heliosphere: Parker Solar Probe and Solar Orbiter.
Gaetano Zimbardo	A fractional Fick's law for anomalous transport in turbulent plasmas
Olga De Pascale	New reliable approaches for iron meteorites identification by laser induced plasma spectroscopy (LIPS)
Tommaso Alberti	Looking at the solar wind plasma for Space Weather purposes
Iole Armenise	Vibrational kinetics of air species in space vehicle re-entry: the $O + N2(v)$ and $N + O2(v)$ collisions
Elisa De Giorgio	Study of Coherent Structure Formation in 2D Magnetohydrodynamics Turbulence
Oreste Pezzi	Collisional effects in Weakly Collisional Plasmas

Nanostructures and Nanotechnologies II				
Chairman: Joost Wintterlin Room Budinich				
Erik Vesselli		sional model catalysts: atomic-le ty at near-ambient pressure.	evel insight into	
Mario Rocca		rom Pristine Metal Terraces by L ed STM and Density Functional 1		
Rossella Aversa	Automatic classifica	Automatic classification of nanoscience SEM images		
Luca Bignardi	Key Role of Rotated	Key Role of Rotated Domains in Oxygen Intercalation at Graphene on Ni(111)		
Paolo Giannozzi	Core level shifts in N	Core level shifts in Mg surfaces exposed to water and oxygen		
Lorenzo Gigli	Frictional features i	Frictional features in graphene nanoribbons deposited on gold		
Andrea Gnisci		Copper preoxidation effect on initial growth stages and individual graphene domains using ethanol precursor in chemical vapor deposition		
Giuliana Aquilanti	In-situ Structural St Adsorption process	udy of the Synthesis of ZnO Nano of Thiol Ligands	particles and the	

Biomedicine and Biophysics II

Chairman:	Rossana	Rauti	Room	Euler
Michele Giugl	iano (Inv)		Draft: January 9 mine coating improves nanocrystalline diamo neuronal adhesion substrate	
Denis Scaini		Tuning cell exci	tability via carbon-based nanomaterial	
Lorenzo Mass	imi	Multiscale X-Ray Phase Contrast Tomography investigation of animal model of multiple sclerosis: monitoring diseases and treatment efficacy		
Michela Fratin	Michela Fratini3D quantitative investigation of the spinal cord neuronal arrangements for preclinical application using X-ray Phase-Contrast multiscale-Tomograph			
Alessia Cedola	a	U	X-ray Phase Contrast Tomography applied to Alzheimer disease	o the
Mario Bortolo	zzi		de restores connexin 32 hemichannel gating is that causes Charcot-Marie-Tooth disease.	nhibited by the

Simone Capaccioli	Vibrational dynamics of biomolecules embedded in glassy matrices
Igor Bodrenko	Sensing single molecule penetration into nanopores: pushing the time resolution to the diffusion limit
Mattia Musto	Generating microvesicles from astrocytes with unconventional stimuli to challenge this intercellular communication system in cultured cortex cells

Photonics and Quantum Information II

Chairman:	Fabio Sciarrino	Room	SISSA D
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Fabio Sciarrino	(Inv) Boson sampling with integrated photonics
Paolo Villoresi	(Inv) Quantum Communications in Space: fundamental tests and applications
Milena D'Angelo	Plenoptic imaging at the diffraction limit
Maria Bondani	Exploring the quantum properties of mesoscopic optical states with photon- number-resolving detectors
Andrea Crespi	<i>Observing quantum interference in three-dimensional multi-mode interferometers</i>
Augusto Smerzi	Witnessing entanglement with the Fisher information: from metrology to to to topological quantum phase transitions.
Matteo Menotti	Generation of path-encoded GHZ states
Matteo Schiavon	Three-observer Bell inequality violation on a two-qubit entangled state

Computational Methods I

Chairman: Carlo	Pierleoni Room	SISSA A
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Philippe Corboz	(Inv) Stripe order in the 2D Hubbard model
Dario Alfe	(Inv) Fast and accurate quantum Monte Carlo methods for material science
Seiji Yunoki	<i>Quantum criticality in the metal-insulator transition of two-dimensional interacting Dirac fermions</i>
Michele Casula	Fully Quantum Description of Water Clusters: Combining Variational Quantum Monte Carlo with Path Integral Langevin Dynamics
Luca Fausto Tocchio	Hidden Mott transition and large-U superconductivity in the two-dimensional Hubbard model
Serena Fazzini	Nonlocal Parity Order in the Two-Dimensional Mott Insulator

Complex Networks and Inference Chairman: Raffaella Burioni Room SISSA B Matteo Marsili (Inv) How simple are simple spin models? Ginestra Bianconi (Inv) Emergent hyperbolic geometry of growing simplicial complexes (Inv) Statistical Inference in Non-linearly Interacting Wave Systems Luca Leuzzi Cosimo Lupo Continuous variables on sparse graphs: a boost toward replica symmetry breaking Spontaneous Ergodicity Breaking in Invariant Matrix Models Fabio Franchini Giacomo Gori Long to short range crossover: the case of one-dimensional percolation Mechanisms behind generation and acceleration of negative ions as an Gianluigi Serianni

example of complex network

Brillouin scattering study

Fluids and Soft Matter II

Chairman: H	Emanuela Zaccarelli	Room	Kastler
Veronique Trap	be (Inv) Interplay of coarsening behavior of a colloida	g, aging and stress hardening i l gel	impacting the creep
Javier Fernandez Castanon	z- Percolation threshold structures	in the gelation process of DNA	l self-assembled
Letizia Tavagna	cco Dynamic transition in	PNIPAM microgels at low tem	peratures
Simona Sennato	Multivariable reentrar	nt condensation of microgel-po	lyelectrolyte complexes
Elena Minina	Magnetic microgels in	computer simulations	
Jose Ruiz-France	Crystallization of star	polymers under shear flow	
Barbara Capone	Designing building blo	ocks at the molecular level	
Eleonora Guarin	<i>i</i> A new approach to the collective dynamics	e density of states of a liquid giv	ves insight into its
Cettina Bottari	Hydration properties of	of native and modified cyclodex	xtrin: an UV Raman and

Plasma Physics II				
Chairman: Vincenz	zo Carbone Room	Infolab		
Vanni Antoni (Inv	v) Generation and acceleration of negative ions in neutral be fusion research: status, perspectives and interdisciplinari	· ·		
Francesco Pegoraro (Inv	v) From oceanography to plasma physics: Lagrangian coher	rent structures		
Paolo Scarin	Edge plasma perturbations in toroidal magnetic confinem	ent devices		
Roberto Paccagnella	Relaxation models for single helical reversed field pinch p aspect ratio	olasmas at low		
Fabio Sattin	Diffusive and evolutionary dynamics from the Master Equ	ation		
Massimo Nocente	Unraveling the energy distribution of MeV range ions in te a combination of multiple nuclear diagnostics and weight velocity space	- ·		
Lionello Marrelli	Upgrades of the RFX-mod experiment			
Francesco Taccogna	Physics of streamer discharge			

Spintronics, ferroelectrics and multiferroics

Chairman:	Franca Albertini	Room	SISSA lecture hall

Xavier Marti	(Inv) Storing OR processing data with antiferromagnets?
Christian Rinaldi	Reversible spin texture in ferroelectric GeTe
Roberto Raimondi	Covariant conservation laws and spin Hall effect in the Dirac-Rashba model
Giovanni Maria Vinai	<i>FexMn1-x thin films at ferro/antiferromagnetic transition on PMN-PT ferroelectric substrates</i>
Piero Torelli	Magnetic phase transitions and magnetoelectric coupling in artificial multiferroic systems
Marco Asa	Impact of electrodes material on the switching properties of Ferroelectric Tunnelling Junctions
Bruce A. Davidson	Deterministic and robust roomtemperature exchange coupling in monodomain multiferroic BiFeO3 heterostructures
Aleksandr Petrov	Transport properties and polarization effects in ferromagnetic-ferroelectic bilayers using manganite thin films

Nanostructures and Nanotechnologies III			
Chairman: Luca P	etaccia	Room	Budinich
Joost Wintterlin (In	v) Operando STM of ca	talytic reactions	
Silvia Nappini	Silvia Nappini Graphene nanobubbles on TiO2 for in operando electron spectroscopy of liquid-phase chemistry		
Gabriele Irde	Dynamic SEM imaging of surface photovoltages in MAPbI3 perovskites		
Matteo Jugovac	Temperature induced transformation of graphene on cobalt films		
Nicola Manini Finite-temperature phase diagram and critical point of the Aubry pinned sliding transition in a 2D monolayer			of the Aubry pinned
Alberto Ambrosetti	•	at the Nanoscale: Towards Con van der Waals Interaction	trollable Scaling of the
Martina Teruzzi	Markov State Modell	ing of Friction in a Realistic 2L) Model
Claudia Caddeo	Ultrastable PTB7-ba simulations	sed organic solar cells investig	ated by atomistic

Biomedicine and Biophysics III

Chairman:	Lucia Pa	squato	Room	Euler
Sonia Contera	(Inv)	~	ing probe methods for measurement a ties at the crossing point of biology, p	0 1
Ljiljana Fruk	(Inv)	Clickable Moleculd	ar Systems for Design of Bio-hybrid M	laterials
Claudio Canal	e	Interaction between single cell force spe	n misfolded protein aggregates and pl ectroscopy study.	lasma membrane. A
Dan Cojoc		Cell biomechanics	investigation by quantitative phase m	icroscopy
Maria Lepore			ELL MIGRATION PROCESSES IN A SING TWO-PHOTON MICROSCOPY	
Francesco Ors	ini	Reversible Dissolut Physiological Temp	tion of Lipid Microdomains in Cancer perature	r Cell Membranes at
Francesco Spi	nozzi	Lipid oxidation of 1	nimetic biomembranes investigated by	y SAXS

Strongly Correlated and Disordered Electrons

Chairman:	Giorgio Sangiovanni	Room	SISSA D
Lara Benfatto	(Inv) Inhomogeneity in la	ow-dimensional superconductors	
Pratap Raychaudhuri	<u> </u>	uced emergent granularity and the Im with weak but homogeneous dis	
Sergio Ciuchi	On Mooij correlati	ons in disordered metals	
Ilaria Maccari	BKT Transition in	disordered superconducting films	
Angelo Pidate	lla Thermal transport	in the Kitaev spin model	
Marcin Wysok	kiski Variational Schrieg equilibrium	ffer-Wolff transformation: Mott phy	vsics in and far from
Domenico Giu	iliano Chirality and Curro Systems	ent-Current Correlation in Fractio	nal Quantum Hall
Pier Paolo Bar	ruselli Nanomechanical da	issipation at a tip-induced Kondo o	onset
Andrea Di Cio		proach to strongly correlated elect of the Hubbard model in a novel f	
Matteo Acciai	<i>Out of equilibrium topological channe</i>	dynamics of single electron injecti Is	on in interacting

Computational Methods II

Chairman: Michele Casula	Room	SISSA A
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Daniele Varsano	(Inv) Carbon nanotubes as excitonic insulators
Emine Kucukbenli	ab initio Crystal Structure Prediction - Are we there yet?
Loris Ercole	<i>Heat transport coefficients from optimally short molecular dynamics simulations</i>
Alessandra Satta	Role of defects in the reactivity of Cd-yellow pigments
Mariami Rusishvili	Optical Properties of Anthocyanins
Daniele Dragoni	<i>A first-principles study of liquid and amorphous phases of the In2Te3 compound</i>

Ivan Carnimeo	New developments in exact exchange calculations with plane waves
Andrea Torchi	Simulation of lipid membrane damage by nanoparticle-induced localized heating
Muhammad Nawaz Qaisrani	Structural and dynamical properties of water and glutamine at the interface

Atoms and Molecules for Quantum Simulation

Chairman:	Leonardo Fallani	Room	SISSA B
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Leonardo Fallani	(Inv)	New synthetic quantum systems with ultracold two-electron atoms
Jacopo Catani	(Inv)	Quantum simulation of Hall systems through synthetic-dimensional Yb gases
Giacomo Lamporesi	(Inv)	<i>Creation, dynamics and interaction of quantized vortices in elongated superfluids</i>
Roberta Citro		Phase diagram of a boson synthetic ladder
Andrea Amico		Probing the spectral response of ultracold Fermi gases after quench to strong repulsive interactions.
Andrea Trombettoni		Nonperturbative RG treatment of amplitude fluctuations in Berezinskii- Kosterlitz-Thouless phase transitions
Lorenzo Del Re		Selective metamagnetism of multi-component fermions in optical lattices

Photonics and Quantum Information III

Chairman: Rosario	Fazio	Room	Kastler	
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Saverio Pascazio	Quantum Simulation of QED is	n 1D: Evidence of a Phase Transition	1	
Cosimo Lovecchio	Quantum phase gate based on	Quantum phase gate based on quantum Zeno dynamics		
Giuseppe Falci	Probing Ultrastrong Coupling by Coherent Amplification of Population Transfer			
Fabrizio Illuminati	Quantumness, geometry, and n	oise		
Fabio Chiarello	Superconducting systems for si dark matter search	ingle microwave-photon detection an	d axion	
Francesco Plastina	Coherence generation, irrevers in quantum processes	sible Entropy production and Non-aa	liabaticity	
Mauro Paternostro	Distributing entanglement with gravity	nout entanglement and the quantum n	nature of	

Giuliano Benenti	<i>Dynamical Casimir effect in quantum information processing and in quantum thermodynamics</i>
Antonella De Pasquale	Out of equilibrium thermometry
Simone Montangero	Recent advancements in tensor network methods

Plasma Physics III

Chairman:	Francesco Pe	goraro	Room	Infolab
Stefano Atzeni		r-driven inertial con onstration	finement fusion (ICF): the	e route toward ignition
Andrea Macch	i (Inv) High	Field Femtosecond	Plasmonics for Laser-Dri	ven Sources
Sarasadat Ghaffarioskoo	C / CT	lation of Longitudin E FEL Using Lienard		Space of Electron Beam in
Maria Rutiglia	no <i>Hydr</i>	ogen scattering from	n a cesiated surface model	!
Paolo Ambrico		metric study of plass 3 sub-micron powde	ma-mediated thermolumin ers	escence produced by
Grazia Cicala		ace modification of a cles in H2 microway	liamond-rich and graphite ve plasma.	rich nanodiamond
Emilio Martine	es Inter	action of a low-temp	perature plasma with patho	ogens and eukaryotic cells
Gabriele Cristoforetti		•	t to Stochastic electron he ion with structured targets	ating in ultrashort and possible applications

Magnetic nanostructures, films and nanoparticles

Chairman:	Dino Fiorani	Room	SISSA lecture hall
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Paolo Vavassori	(Inv) Plasmon-assisted thermal excitation of artificial spin ices
Franca Albertini	Magnetic shape memory nano-materials: from thin films to free-standing nano-disks
Davide Peddis	Non-equilibrium dynamics in superspin glass systems
Stefano Colonna	Structural and magnetic investigation of the $Mn:GaAs(001)-(2x1)$ and $-(2x2)$
Matteo Cantoni	Controlled oxidation of Chromium ultrathin films on ferroelectric BaTiO3 templates

Francesca Genuzio	Local SRT via controlled surface Carbon accumulation of thin Co(0001) films
Oleg Brovko	<i>Mechanical control over anisotropy in magnetic endofullerenes: DySc2N@C80</i>
Angelo Valli	Quantum interference assisted spin-filtering effect on graphene nanoflakes
Federico Motti	Strain effects of a polarized BaTiO3 single crystal on the magnetic properties of a La0.65Sr0.35MnO3 thin film

Nanostructures and Nanotechnologies IV				
Chairman: May	ya Kiskinova	Room	Budinich	
Paolo Blasi	(Inv) Protein Decorated Na	noparticles to Improve Brain L	Drug Delivery	
Alessandro Paciaroni	(Inv) Thermal unfolding of thermodynamic featur	human telomeric DNA quadrup es.	plexes. Structural and	
Alessandra Bellissimo	Mastering the second plasmons excitation	ary electron emission from sing	le crystal surfaces by	
Emanuele Panizon	Ballistic thermophore	sis: a gold cluster on graphene		
Gianmarco Muna	anmarco Muna Hybrid particle-field molecular dynamics study of Silica-Polystyrene nanocomposites			
Riccardo Fantoni	One-dimensional fluid	ds with second nearest-neighbor	r interactions	
Mirco Panighel	The FAST module: an microscopes to video	add-on unit for driving comme rate and beyond	ercial scanning probe	
Barbara Casarin	Single-Shot Optical A	morphyzation of Ge-Sb-Te base	ed Nanoparticles	

Out of Equilibrium Statistical Physics I

Chairman: F	lavio Seno	Room	Euler
David Multanal	(Inv) Long Pange co	rrelations in driven systems	
David Mukamel		·	atatos
Andrea Gambass	· · ·	ssovers and universality in prethermal critical	siales
Nicol Defenu	. 2	uantum Long Range Systems	
Francesca Pietracaprina	Enlanglement d	and length scales in a many body localizable s	ystem
Stefano Mossa	Heat and sound	l in disordered solids	
Ubaldo Bafile	Exponential mo fluid dynamics	ode analysis of time autocorrelation functions.	a new route to
Pietro Anzini	Solvent mediate	ed forces in critical fluids	
Giulia Cencetti	Control of mult	tidimensional systems on complex network	

Strongly Correlated Multi-orbital systems					
Chairman: Sergio (Ciuchi	Room	SISSA D		
Luca de Medici (Inv) Hunds correlated	metals			
Markus Aichhorn	Spin-Orbit Coupli Hubbard model	ng and Enhanced Electronic Correla	tions in a Three-Band		
Adriano Amaricci	FIELD-DRIVEN I CORRELATED IN	MOTT GAP COLLAPSE AND RESIS NSULATORS	TIVE SWITCH IN		
Stefania De Palo		ation and quadriexcitons in a symmetry degeneracy: QMC simulations	tric electron-hole		
Alessandro D'Elia		ructural properties at the nanoscale on in VO2 thin films.	across the Metal-		
Valentina Brosco	Pauli metallic gro coupling	und state in Hubbard clusters with Ro	ashba spin-orbit		
Francesco Petocchi	Phase diagram of	a spin-orbit coupled three-orbital Hu	ıbbard model		
Francesco Grandi	Mott transition an	d anti-ferro orbital ordering in a two	band Hubbard model		
Aldo Isidori	Charge density wa	aves in graphite: towards the magneti	c ultra-quantum limit		

Novel non-equilibrium probes and emergent ultrafast phenomena

Chairman: Cla	udio Giannetti	Room	SISSA A
Francesco Banfi	(Inv) Temperonic Crysta Metamaterials.	als: coherence effects of temperature	? fields in Quantum
Giacomo Mazza	Energy transport i	in correlated meta-materials	
Emiliano Principi	Progress in experi free electron laser	iments on nonequilibrium condensed	matter at the FERMI
Giorgia Sparapassi		spectroscopy for non-equilibrium me des of electronic and vibrational ori	U
Daniel T Payne	On the Influence of	of Defects on the Ground and Excited	l States of TiO2
Michele Di Fraia	Time-resolved and @ FERMI	l imaging techniques at the Low Den	nsity Matter Beamline
Marco Gandolfi	Ultrafast thermo-c environment	optical dynamics of metal nano-objec	cts in a transparent

Atoms and Molecules for Quantum Sensing and Metrology

Chairman: Ma	rco Fattori	Room	SISSA B
Davide Calonico		QUENCY STANDARDS: TOWARD TH AND QUANTUM SENSING FOR REL	
Marco Fattori	(Inv) Trapped atom ir metrology.	nterferometry for high spatial resolutio	on sensing and
Giulio D'Amico	(Inv) Gravitational m	easurements with simultaneous atom i	interferometers
Leonardo Salvi	A Spin Squeezed	l Atom Interferometer with strontium a	atoms
Amelia Detti	A quantum mixt	ure of ultracold lithium atoms and trap	pped barium ions

Low-dimensional Materials I

Chairman: Silvano	Lizzit	Room	Kastler
Philip Hofmann (Inv) Electronic structure of	f novel two-dimensional material.	S
Luca Petaccia	Superconducting prop probed by ARPES	perties of alkali metal functionaliz	ed layered materials
Luca Ottaviano	Mechanical exfoliatio	n and layer number identification	of MoS2 revisited
Igor Pis	Fe intercalation unde grown on Pt(111)	r graphene and hexagonal boron	nitride heterostructure
Elisabetta Travaglia	Transition from Sulfic Au(111)	led Molybdenum Clusters to mono	olayer MoS2 on
Michele Merano	The optical response	of an atomically thin crystal	
Roberto Guerra	Graphene on h-BN: to	o align or not to align?	
Luciano Ortenzi	Zero point motion and transition-metal dichd	d direct/indirect bandgap crossov alcogenides	er in layered
Tommaso Cavallucci	<i>H</i> coverage defects in	quasi-free-standing monolayer g	raphene on SiC

Dynamics, atomic and molecular magnetism				
Chairman: Rico	cardo Bertacco	Room	Infolab	
Stefano Bonetti	(Inv) THz-driven Ultrafa.	st Spin-Lattice Scattering in Metal	lic Ferromagnets	
Stefano Rusponi	(Inv) Long spin lifetime is	n rare-earth-based quantum magn	ets	
Caterina Braggio	Optical Manipulation	on of a Magnon-Photon Hybrid Sy	stem	
Flavio Capotondi	Probing ultrafast m	agnetization dynamics with FEL li	ght	
Alessandro Barla	Magnetic exchange	on the surface of topological insul	lators	
Manuel Mariani		N SINGLE ION POLYOXOMETA. NET [Er(W5O18)2]9-	LATE SINGLE-	
Hamoon Hedayat Zadeh Roodsari	Collective excitation	ns behind the ultrafast demagnetize	ation of metals	

14:30 - 17:00

Orals

Superconductivity	, I		
Chairman: Pietro C	Carretta	Room	Budinich
Gianni Profeta (Inv	r) New Iron-based Supercondu	ctors	
Samuele Sanna	Impurity effects in optimally	doped oxypnictide super-	conductors
Laura Fanfarillo	Orbital Selective Physics of	Iron Based Superconduct	tors
Daniele Torsello	A microwave resonator techn penetration depth of (Ba1-xH Eliashberg s+- wave model		
Matteo Moroni	Effect of proton irradiation of Ba(Fe1xRhx)2As2 supercond		nergy excitations of
Alessandro Lascialfari	Novel aspects of supercondu supercondu	ective fluctuations in diffe	rent classes of high-Tc
Andrea Perali	Toward very high-Tc superco transitions and mixtures of B		1 0
Davide Valentinis	Superconducting shape reson LAO/STO interface	nance from quantum conj	finement at the
Arturo Tagliacozzo	Incipient Berezinskii-Koster Josephson junctions	litz-Thouless transition in	n coplanar graphene

Out of Equilibrium Statistical Physics II

Chairman: Dav	vid M	lukamel Room	Euler	
Andrea Puglisi	(Inv)	Vibrofluidized granular materials: an experimental w	valk-through	
Flavio Seno	(Inv)	Brownian yet non-Gaussian diffusion: from superstatistics to subordination of diffusing diffusivities		
Fausto Borgonovi		the temperature of a single chaootic eigenstate		
Stefano Iubini		A chain, a bath, a sink and a wall		
Alessandro Vezzani	ļ	Correlated bursty dynamics in excitatory neural netw plasticity	vorks with synaptic	

Giacomo Gradenigo	<i>First-order transitions in the Large Deviations of non-interacting Run-and-</i> <i>Tumble particles</i>
Fabrizio Camerin	Does the dynamical susceptibility capture the dynamical heterogeneities of the Lorentz model?
Franco Pellegrini	Markov State Modeling of Nonequilibrium Dynamics

Topological Matter I

Chairman:	Mario Cuoco	Room	SISSA D
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Igor Herbut	(Inv) Non-fermi liquids and fixed point collisions in 3D Luttinger semimetals
Marcello Dalmonte	Majorana Quasi-Particles Protected by \$\mathbb{Z}_2\$ Angular Momentum Conservation
Andrea Perucchi	<i>Optical properties across the pressure-induced topological Lifshitz transition in black phosphorus</i>
Roberto Flammini	A scanning tunnelling microscopy and spectroscopy study of the antimonene/Bi2Se3 interface
Luca Chirolli	Time-reversal and rotation symmetry breaking superconductivity in Dirac materials
Andrea Sterzi	Time-Resolved ARPES on topologically-non trivial materials
Flavio Ronetti	Heat transport in driven topologically protected systems
Rosa Giuliano	Persistent current and zero-energy Majorana modes in a p-wave disordered superconducting ring
Chiara Bigi	Spin-resolved angular-resolved photoemission spectroscopy experiments on in-situ transferred epitaxial Bi2Se3 thin films

Advanced inorganic and hybrid materials for perovskite-based optoelectronic devices

Chairman: Fi	lippo I	De Angelis	Room	SISSA A
Mohammad Khaja Nazeeruddin	a (Inv)	Under submission		
Antonio Abate	(Inv)	Active materials and in	terfaces for stable perovskite	solar cells
Alessandro Matto	ni	-	effects on the microstructure d by large scale molecular d	

Luca Bellucci	Graphene-based Nanostructured Models for Energy Storage Applications
Giacomo Torrisi	AZO/Ag/AZO thin films as anti-reflecting flexible transparent electrodes
Thineth Jayamaha	Poly (Ethylene Oxide) Based Nano-Composite Gel-Polymer Electrolytes for Sodium-Ion Secondary Batteries

Quantum Fluids of atoms and light				
Chairman: Iaco	opo Carusotto	Room	SISSA B	
Iacopo Carusotto	(Inv) The parallel adventu	res of Quantum Fluids of Light o	and of Ultracold Atoms	
Luca Pezze'	()) witnessing entanglement with the Fisher information, from metrology to topological quantum phase transitions		
Riccardo Rota	Critical behavior of 2	2D dissipative spin lattices		
Orazio Scarlatella	Dissipative Phase Tr	ansition of Incoherently Driven	Lattice Bosons	
Manuele Tettamanti	Hawking radiation in	BECs: an exactly solvable mod	lel	

Detection of topological invariants in a chiral quantum walk of twisted

Grazia Salerno Propagating edge states in strained honeycomb lattices

photons

Low-dimensional Materials II

Filippo Cardano

Chairman:	Stefan H	eun	Room	Kastler
Benjamin Sace	epe (Inv)	Gate-defined quantum point co	ontact in graphene in the	e quantum Hall regime
Francesco Ma Dimitri Pelleg		Effect of the shear and Hall vi graphene	scosities on hydrodynam	ic transport in
Leonardo Mar	tini	Chemically synthesized Graph contact electrodes	aene Nanoribbon devices	using graphene as the
Didier Bathell	ier	Edge states in bilayer grapher symmetries	ie: the effect of magnetic	catalysis and broken
Federico Gras	selli	Quantum propagation of a con heterostructures	rrelated electron-hole par	ir in semiconductor
Marco Smerie	ri	From organometallic structure on Ag(110)	es to graphene nanoribbo	ons: Dibromopyrene
Luca Vannucc	zi	Electron quantum optics at fro	actional filling	

Weak localization corrections to the spin transport coefficients in twodimensional electron gases in the presence of Rashba spin-orbit coupling

Sensors, Devices and Applications				
Chairman: Gio	orgio Sberveglieri	Room	Infolab	
Elisabetta Comini	(Inv) Development and cha	aracterization of semiconducting o	oxides for gas sensors	
Arnaldo D'Amico	adsorbimento/desorb Langmuir: determind	 v) Descrizione di un nuovo modello elettronico per il processo di adsorbimento/desorbimento di composti volatili in superfici di sensori tipo Langmuir: determinazione della densit di stati di superfice e descrizione analitica del fenomeno del getter. 		
Pasquale Pagliusi	In situ molecular-lev	el picture of receptor-ligand inter	action at interfaces	
Marco Faverzani	Direct calorimetric n	neasurement of the neutrino mass	with HOLMES	
Lorenzo Maccone	Digital Quantum Me	trology		
Alessia Irrera	Label-free optical Si	nanowire-based biosensors		
Mario Urso	Low-cost and control sensing	lled synthesis of Ni nanofoam for i	non-enzymatic glucose	
Rossella Yivlialin	Blister evolution timi interpretative model	ing during graphite anion intercal	lation: a new	

11:00 - 13:30

Orals

Superconductivity II				
Chairman: Giao	como Ghiringhelli	Room	Budinich	
Riccardo Comin	(Inv) RESONANT SCATTERI QUANTUM SOLIDS	ING STUDIES OF ELECTR	ONIC ORDERS IN	
Carlo Di Castro	(Inv) Charge order and its ro	le in the physics of cuprates		
Alberto Nocera	Signatures of pairing in correlated ladders	the magnetic excitation spe	ctrum of strongly	
Roberto Fumagalli	Fully polarized RIXS of	superconducting cuprates		
Jean Paul Latyr FAYE	Pseudogap to metal trai model	nsition in the anisotropic two	o-dimensional Hubbard	
Ettore Carpene	Jahn-Teller and exciton system	s contributions in the 1T-Ti	Se2 charge density wave	
Marcello Spera	Energy dependent doma	ain formation in the CDW of	1T-CuxTiSe2	
Denis Aron	An unconventional quar	ntum spin liquid with atomic	-cluster spins in 1T-TaS2	

Ultrafast dynamics in 2D and topological materials

Chairman: Frances	co Banfi	Room	Euler
Stefano Dal Conte (Inv) Ultrafast exciton ar	nd valley dynamics in two-dimensiona	al materials
Christoph Gadermaier	Non-equilibrium ph dichalcogenides	notophysics of semiconducting 2d tran	nsition metal
Andrea Tomadin	The ultrafast dynan carrier density	nics and THz photoconductivity of gra	aphene at variable
Alessandra Virga	•	e-phonon scattering in the Raman spe excited charge carriers	ctrum of Graphene in
Eva Arianna Aurelia Pogna	Non-equilibrium op	otical properties of encapsulated grap	bhene
Davide Sangalli	Pump and probe ex	periments from first principles	
Matteo Lucchini	Tiime-resolved dyn	amical Franz-Keldish effect in Diamo	ond

Franca Manghi	Graphene under intense laser fields: edge states, High Harmonic Generation and other unconventional features.
Davide Bugini	Ultrafast spin-current and spin-accumulation in topological insulators investigated by time- and angle-resolved photoemission spectroscopy

Topological Matter II				
Chairman: Marcell	o Dalmonte	Room	SISSA D	
Giorgio (Inv Sangiovanni	y) Edge state reconstr insulators	ruction from strong correlations in	quantum spin Hall	
Ivana Vobornik	Electronic Band St	ructure and Spin-Orbit Coupling is	n IrO2	
Mario Cuoco	Designing topologi shape deformation	ical states, spin textures and supero	conducting pairing by	
Domenico Di Sante	Robust spin-polariz insulators	zed midgap states at step edges of i	topological crystalline	
Jun Fujii	Three-Dimensional	l Electronic Structure of type-II We	eyl Semimetal WTe2	
Niccol Traverso Ziani	Signatures of intera contacts	action-induced helical gaps in nan	owire quantum point	
Lorenzo Privitera	Non-adiabatic brea	aking of topological pumping		
Philipp Schuetz	Dimensionality-Dr. Spin-Orbit Coupled	iven Semimetal-Insulator Transitic d SrIrO\$_3\$	on in Ultrathin Films of	
Luca Lepori	Long-range topolog correspondence	gical insulators and weakened bul	k-boundary	

Advanced materials for photovoltaics and artificial photosynthesis

Chairman:	Paolo Giannozzi	Room	SISSA A

Giuseppe Mattioli	(Inv) Ab Initio Simulations of Metal-Oxo Cores for Photosynthesis
Nicola Seriani	Multifaceted behaviour of hydrogen in titania
Gloria Zanotti	From light harvesting to charge transport: phthalocyanines in hybrid-organic photovoltaics
Kanchan Ulman	A Unified Picture of Water Photo-oxidation on Hematite from Density Functional Theory

Francesco Toschi	The effect of DNA on the Electron Extraction Layer in Organic Solar Cells: an Ultrafast Spectroscopic Study
Matteo Amati	Scanning Photoemission Imaging and Spectromicroscopy, a powerful tool for in situ and in operando characterization of Fuel Cell components
Luis Guillermo Mendoza Luna	Enhancement of light transmission through random copper thin-films near the percolation threshold

Statistical Physics Methods in Neuroscience and Biology

Chairman:	Cristian Micheletti	Room	SISSA B
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Riccardo Zecchina	(Inv)	<i>Out-of-equilibrium states and quantum annealing speed up in non-convex optimization and learning problems</i>
Mattia Zampieri	(Inv)	The metabolic landscape of antibiotic modes of action
Roberto Cerbino	(Inv)	Unjamming and Flocking in Jammed Epithelia
Daniele De Martino		Statistical mechanics of metabolic networks
Duccio Fanelli		Noise driven neuromorphic tuned amplifier
Eleonora Secchi		The flow of a bacterial suspension around a pillar: broken simmetry and biofilm formation

Low-dimensional Materials III

Chairman:	Benjamin Sacepe	Room	Kastler
Deborah Prezz	i (Inv) Illuminating graph	ene nanoribbons: insights from ab-i	initio simulations
Polina Sheverdyaeva	Supported 2D hone	ycomb-like materials: the case of si	licene
Stefan Heun	Li-intercalated Gra	phene on SiC(0001): an STM study	,
Viktor Kandyb	a Micro-ARPES stud	y of graphene-based compounds	
Luca Vattuone	CO chemisorption of	at pristine, doped and defect sites o	on Graphene/Ni(111)
Lorenzo Avald	i Electron pair escap	e in C60 via collective modes	
Alessandro Sal	a Growth and electro	nic structure of Graphene on Ni(10	0)
Carlo Maria Bo	ertoni Graphene on transi surface passivation	tion and noble metals surfaces: elec	ctronic structure and

Environmental physics

Chairman: C	Carmine Serio	Room	Infolab
Xiuqing Hu	(Inv) History and Future	e of Chinese Meteorological Satellite	es - Fengyun (FY) series
Carmine Serio	OCS and N2O from	imultaneous retrieval for CO, CO2, n IASI observations and inter-compo AIRS, GOSAT, OCO-2 satellite produ	arison with in situ
Xuan Wang	Development of a l	High Spectral Resolution Lidar for S	Space Applications
Alessia Sannino	Retrieval of atmosp AERONET data-se	pheric aerosol microphysical param et.	eters from the
Simona Scollo	Lidar measuremen	ts at Mt. Etna, in Italy: new insights	on plume dispersal
Andrea D'Anna	Characterization o	of particulate matter over the Napoli	harbor
Alberto Sorrenti	no Estimating aerosol Carlo	l microphysical parameters from LII	DAR data with Monte
Carmen de Marc	co LIDAR Technology	y in Air Quality Monitoring	

11:00 - 13:30

Orals

Superconductiv	ity III		
Chairman: Andr	ey Varlamov	Room	Budinich
Francesco Tafuri (Inv) The new frontiers of th and magnetic junction	he Josephson effect in novel unc as	conventional nano-scale
Xiao-Jia Chen	Inv) Discovery of supercon	nductivity in polyparaphenylene	e oligomers
Emmanuele Cappelluti	Signature of anisotrop shrinking in MgB2 by	pic photoinduced doping and dy pump-probe optics	vnamical Fermi surface
Francesca Giusti	<i>Optical control of the mid-infrared pulses</i>	superconducting gap in optima	lly doped B2212 with
Erik Piatti	Ionic gating in superc via surface-bound elec	onducting thin films: control of ctric fields	f bulk superconductivity
Gaetano Senatore	Pairing gap in the BC with valley degenerac	'S-BEC crossover in a symmetr y	ric electron-hole bilayer
Giacomo Ghiringhelli	New generation RIXS	of 3d transition metal oxides	
Alessandro Braggio	Entanglement control	in hybrid quantum-dot Cooper	pair splitters

Non-equilibrium phenomena in superconductors and correlated materials

Chairman:	Stefano Dal Conte	Room	Euler
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Claudio Giannetti	(Inv) Non-equilibrium phenomena in correlated materials
Federico Cilento	Antinodal collapse in superconducting copper oxides driven by charge- transfer manipulation
Adolfo Avella	BCS superconductors: the out-of-equilibrium response to a laser pulse
Tommaso Cea	ultra-fast time resolved spectroscopy in superconductors
Andrea Nava	Cooling quasiparticles in A3C60 fullerides by excitonic mid-infrared absorption
Denis Golez	Nonequilibrium dynamics in charge transfer insulators

Alexandre Marciniak

Igor Vaskivskyi

Real-time tracking of ultrafast insulator-to-metal transition in charge density wave system

SISN I

Chairman:	Franceso	co Spinozzi	Room	SISSA D
Yuri Gerelli		TIMESCALE OF PHOSPHOLI REFLECTOMETRY	IPID FLIP-FLOP REVEALED B	Y NEUTRON
Antonio Bene	detto	<i>u u i</i>	re Ionic Liquids on (model) Biom and Computer Simulation Study	
Antonino Pietropaolo		14 MeV neutrons for medical approduction	pplication: a scientific case 99M	o/99mTc
Davide Flamn	nini	A possible approach to 14 MeV	⁷ neutron moderation: A prelimin	eary study case
Ernesto Scopp	oola	Floating Lipid Bilayers at the L	.iquid/Liquid interface	
Claudia Mond	lelli	Modelling Option USANS for S LoKI@ESS and the upgrade of	SANS instruments: the project OF [D11@ILL	PUS for

Photonic Materials and Devices

Photonic Mate	erials and Devices		
Chairman: Fran	ncesco Priolo	Room	SISSA A
Lorenzo Pavesi	(Inv) Classical and Quant	um Integrated Silicon Photonics	S
Giuseppe Gigli	(Inv) Hybrid Perovskite be	ased materials for Optoelectron	ics
Maria Jos Lo Faro	(Inv) Silicon Nanowires: t	he route from synthesis towards	applications
Ottavia Jedrkiewicz	Experimental eviden Nonlinear Photonic	ce of Superresonant Parametric Crystals	e Generation in
Carlo Rizza	Metamaterials with	moderate-index inclusions	
Marco Passoni	Slow light in Silicon-	-On-Insulator grating waveguid	les
Gagan Kumar	Plasmon induced tra	nsparency in graphene based te	erahertz metamaterials

Semiconductors and Oxides I				
Chairman: Roberto	Fornari	Room	SISSA B	
Raffaella Calarco (Inv)	Fabrication of Ordered Properties to Applicati	l Phase Change Materials: From ons	Fundamental	
Bla Winkler	Correlations between S from First Principles	Structural and Optical Properties	of Peroxy Bridges	
Marco Caputo	Electronic structure of polaronic tail?	LAO/STO thin film: quantum wel	ll states or enhanced	
Paola Di Pietro	Optical properties of n	ickelate heterostructures		
Nicolas Salles		tion of local strain effect on the pr ss using a coupling between Activ nciples calculations		
Federico Bottegoni	Spin-Hall effect in bull	germanium		
Francesco Filippone	An ab initio study of se	olitary-cation properties in InxG	Ga(1-x)N alloys	
Davide Tedeschi		perties of electrons and holes in I magneto-optical measurements a		
David Dellasega	Pulsed Laser Depositio temperature	on of tungsten-on-silicon ohmic co	ontacts at room	

Polymers, Organic molecules and Thin Films I

Chairman: Alc	on Gorodetsky	Room	Kastler
Dimas de Oteyza	(Inv) Synthesis and charact	erization of atomically precise g	graphene nanoribbons
Albano Cossaro	(Inv) 2D functional templat	es on metal surfaces	
Elena Molteni	Effect of stacking on the TD-DFT study	he optical properties of eumelar	nin protomolecules: a
Marianna Ambrico		agments redox activity tuned vic possible route for innovative bi	1
Luca Pasquali	-	ular organization of pentacene i nt Soft X-ray Reflectivity	thin films for organic
Giovanni Zamborlini	Multi-orbital charge t	ransfer at highly oriented organ	nic/metal interfaces

Biomolecular Modeling

Chairman: R	Roberto Cerbino	Room	Infolab
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Guido Tiana	(Inv) Maximum-entropy n	nodelling of biomolecules	
Fabio Cecconi	Frequency-control of	of protein translocation across an o	oscillating nanopore
Antonio Trovato	Linking in domain-s	swapped protein dimers	
Andrea Cesari	Combining simulation force field refinement	ons and solution experiments as a p nt	paradigm for RNA
Antonio Suma	Pore translocation of	of knotted DNA rings	
Negar Nahali	Glassiness and Hete Polymers	erogeneous Dynamics in Entangled	Solutions of Ring
Mattia Marenda	Sorting ring polyme	rs by knot type with modulated nan	nochannels
Matteo Adorisio	Exact and efficient s	sampling of constrained walks	
Luca Tubiana	Chirality modifies th polymers	he interaction between knots on stre	etched semiflexible

SILS I

S125 I			
Chairman: Andrea	Di Cicco	Room	SISSA lecture hall
Giorgio Rossi (Inv)) Spin Polarization Research Infr	rastructure in the Na	noscale and Time domains
Valentina Bonanni	X-ray magnetic circular dichron maghemite hollow nanoparticle	0	spins disorder in
Federico Boscherini	Element specific channels in ph	oto excitation of V a	loped TiO2 nanoparticles
Alice Moros	Local structure of (Cel-xLux)O	2-x/2 studied by x-ra	y absorption spectroscopy
Piero Torelli	APE-High Energy beamline: a electronic properties of nanostr	• •	0

Ilaria CarlomagnoCobalt-oxide reduction upon annealing: thermally-induced film purification
after intercalation under GrRossella ArlettiUnravelling the energetic performances of all silica zeolites: High-Pressure

X-Ray Powder Diffraction experiments on Si-CHA

Polymers, Organic molecules and Thin Films II			
Chairman: Dimas of	de Oteyza	Room	Budinich
Alon Gorodetsky (Inv	y) Dynamic Materials.	From Squid to Shapeshifters	
Chiara Piotto	Fluorinated Substra	ttes for Laser Desorption Ionizatio	on
Luca Schio	Angle-resolved phot molecule	toelectron spectroscopy of the Epi	chlorohydrin chiral
Alberto Verdini		Ruthenocene on Ag(111) and Cu(Absorption Spectroscopies	(111) by means of X-ray
Guido Fratesi	Evidence of corann	ulene tilting on Ag(111)	
Anu Baby	Electronic and strue Ag(111)	ctural properties of K doped PTCI	DA monolayer on
Giovanni Di Santo	Polycyclic Aromatic and electronic prop	c Hydrocarbons on Cu(111): a clu erties	e on surface assembly
Luca Floreano		lation on rutile TiO2(110): molec e capture of porphyrin ?	ule incorporation of
Irene Benni	Pyrene-labelled fern protein conformatio	ritin as an excimer fluorescence b nal changes	ased probe to study

Non-equilibrium phenomena in open quantum system

Chairman:	Andrea Gambassi	Room	Euler
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Alessandro Silva	(Inv)	Nonequilibrium dynamics in synthetic quantum matter: common themes and challenges.
Davide Rossini	(Inv)	Dissipation in adiabatic quantum computers: Lessons from an exactly solvable model
Francesco Peronaci		Strong correlations in the dynamics of quenched and driven lattice quantum systems
Angelo Russomanno		Floquet time-crystal in the Lipkin-Meshkov-Glick model
Silvia Pappalardi		Multipartite entanglement after a quantum quench

Nagamalleswara Rao Dasari	Photo-carrier relaxation of correlated band insulators
Alberto Biella	<i>Nonequilibrium phases of an incoherently-driven strongly correlated photonic lattice</i>
Luca Arceci	Dissipative Landau-Zener problem and thermally assisted quantum annealing

SISN II

Chairman:	Fabio B	runi	Room	SISSA D
Caterina Petril	1.	Neutron Landscape in Europe		
Caterina Petri	10	Neuron Lanascape in Europe		
Stefano Carret	ta	Portraying entanglement betwo inelastic neutron scattering	een molecular qubits wit	th four-dimensional
Valeria Ronde	lli	Amyloid peptides aggregation membranes	and their interaction wi	ith raft-mime model
Andrea Piovar	10	Neutrons for Energy. How neu thermoelectric materials	tron spectroscopy helps	understanding
Andrea Oreccl	hini	<i>Hydration vs. Bulk Water: wha collective modes</i>	it we have learnt from hi	igh-frequency

Francesca Natali Italian activities at ILL

Nanophotonics, plasmonics and photovoltaics

Chairman: Giu	seppe Gigli	Room	SISSA A
Cosimo Gerardi	(Inv) Innovative silicon l costs in PV solar p	heterojunction technology for reduce lants	cing energy generation
Faustino Martelli	(Inv) Ultrafast carrier dy silica nanowires	ynamics in Au and Ag 3D nanopart	ticles arrays formed on
Daniele Sanvitto	(Inv) Polaritons condens entanglement	sates: from macroscopic quantum	phenomena to
Stefano Cusumano	Interferometric Qu	antum Cascade Systems	
Belen Sotillo	Femtosecond laser	fabrication of waveguides and NV	centers in diamond
Daniele Aurelio	Electromagnetic fie	eld enhancement in Bloch surface v	waves

Semiconductors and Oxides II

2011001100			
Chairman:	Raffaella Calarco	Room	SISSA B
Roberto Fornar	ri (Inv) Epsilon-Ga2O3: a n	ovel wide-bandgap semiconducto	or
Andrea Picone		in oxides on magnetic substrates tomic scale control of the interfa	
Patrizia Borghe	etti Orientation-depende surfaces	ent chemistry and band-bending o	of Ti on polar ZnO
Silvia Maria Pietralunga	Nanostructured WO. efficient photoanode	3 n-n junctions grown by reactive s for water splitting	e RF sputtering as
Maurizio Zani	Electron dynamics in Scanning Electron M	n aluminum oxide thin film revea Aicroscopy (USEM)	led by Ultrafast
Pasquale Orgia	6	n of electronic properties of TiO2 onal gas to a bulk localized in-ga	<i>v v</i>
Giovanni Drera	a Direct probing of all photoelectron spectr	l-oxide heterostructures band jun roscopy	action profile through
Maria Antonie Fazio	tta Nanoscale electrical layers for photovolta	characterization and interface a nic applications	nalysis of Si-based thin
Jan Hostaa	Effect of rare earth i ceramics	ons doping on the thermal prope	rties of YAG transparent
Luigi Giacoma	azzi Color centers in P-d investigation.	oped and Yb-doped silica optical	l fibers: a first-principles

Complex Systems

Chairman:	Fabio Cecconi	Room	Kastler
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Irene Giardina	(Inv) Dynamic scaling in natural swarms
Samir Suweis	Cooperation promotes biodiversity and stability in a model ecosystem
Sergio Caserta	Dynamic evolution of cell systems
Camilla Ferrante	Reaction rates measured in a microfluidic device with Fluorescence Lifetime Imaging Microscopy
Pedro A. Sanchez	Controlling generic microscopic active particles with magnetic fields
Francesca Cuturello	Predicting RNA structure based on direct co-evolutionary couplings obtained with Boltzmann learning techniques

Emiliano Poli	On the Origins of the Charging of Water at the Air-Water Interface
Romano Lapasin	A rheological study on the sucrose-induced self-assembly of HM pectin
Haidar Sabbagh	A Model for the Diffusion of Polymeric Melts based on the Generic van der Waals Equation of State and the Free Volume Theory

SILS II

Chairman:	Silvia Gross	Room	SISSA lecture hall

Filippo Bencivenga (Inv)	Wave-mixing experiments based on XUV transient gratings
Andrea Perucchi	The TeraFERMI beamline for THz nonlinear studies
Adriano Verna	Space-charge effects in time-resolved photoelectron spectroscopy with free- electron laser radiation
Francesco Bisio	Long-living non-thermal electron distribution in aluminum excited by femtosecond extreme-ultraviolet radiation
Paolo Dolcet	Binary vanadates: effect of dopant ions on structural features
Giorgia Confalonieri	Nano perovskite and the size effect: the case of BaTiO3 doped by CeIV
Angela Trapananti	XAS study of the Lithium storage mechanism in transition metal-doped ZnO anodes
S. Javad Rezvani	Reversible interface formed on metal alloy oxide nanoparticles via lithiation
Luca Braglia	Insertion of Mn(II) and Nb(IV) atoms in the cornerstone of MOF-5: XANES and EXAFS studies

Orals

SILS III

Chairman: Rossella	a Arletti	Room	Budinich
Alberto Bravin (Inv) Removal signs of chronic pain circuits	by in vivo modulation of brain	cortical sensory
Luca Brombal	Phase contrast breast-CT: from reconstruction	n the workflow optimization to	the 3D
Diego Pontoni	Mixed surfactant-nanoparticle synchrotron x-ray scattering a	thin films at water-oil interface nd atomic force microscopy.	es studied by
Paola Bolognesi	Synchrotron radiation and coin biomolecules, from fundament	ncidence experiments on isolat al study to applications	ed
Nicola Dengo	Following crystallization of Zn continuous flow miniemulsion	aS nanostructures in confined sp process	pace by in-situ
Francesco Benedetti	Investigating Ce-doped bioacti activity with XAS	ive glasses structure and catala	se mimetic
Elisa Rodeghero	Structural study of the adsorpt Compounds confined to the hyd	ion and desorption process of V drophobic ZSM-5	Volatile Organic
Lorenzo Mino	Tuning the electrical propertie nanobeam	es of functional oxides using a h	ard X-ray

SISN III

Chairman:	Marco Zanatta	Room	Kastler
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Silvia Imberti	(Inv) Total neutron scattering: the order of disorder
Andrea Orecchini	T-REX: a bispectral chopper spectrometer for ESS
Stefano Bellissima	VESPA@ESS
Giuseppe Gorini	SANS detectors
Luca Silvestrin	LINUS: the Legnaro integrated neutron sources suite
Fabio Bruni	Sorgentina
Silvia Imberti	ISIS: current status and perspectives

Monday, October 2

Poster session Monday

Iole Armenise	e- + CO2 collisions: vibraional kinetics and eedf
Giancarlo Cappellini	Prominent documents and books of Sardinia cultural heritage: a first Raman spectroscopy study.
Matteo Vallar	Neutral beam deposition profiles in JT-60 SA at various plasma composition and different injection energies
Giovanni Pietraroia	HEWL amyloid aggregates effects on model lipid membranes.
Riccardo Borghi	Sharp-edge diffraction theory revisited: a catastrophic perspective
Pietro Vincenzi	Layout and first measurements of the RING optical cavity for laser NBI photoneutralization
Giancarlo Cappellini	Optical properties of Si-atoms substituted graphene nanoribbons: a TDF-DFT computational study
Paolo Zucchiatti	Study of nucleic acids extracted from tumor cells by means of UV Resonant Raman and FTIR spectroscopies
Ali Sabbagh	A Model for the Diffusion of Polymeric Melts based on the Generic van der Waals Equation of State and the Free Volume Theory
Iris Agresti	Experimental benchmark of Boson Sampling with pattern recognition techniques
Paolo Moretti	SAXS investigations of intrinsically disordered proteins
Paolo Ambrico	Reduction of microbial contamination and improvement of germination of sweet basil (Ocimum basilicum L.) seeds via Surface Dielectric Barrier Discharge
Paola De Nuntiis	Pollutants monitoring for the preservation of cultural heritage: the case study of the Museo di Capodimonte
Luisa Ulloa Severino	Carbon nanotubes induce regulation of valvular interstitial cells fate
Matteo Altissimo	Multi-purpose, re-sealable integrated wet cell for vacuum applications
Ilaria Rago	CNT-based scaffolds interfacing neurons: a promising bio-hybrid system for the enhancment of brain network activity
Fabrizio C. Adamo	Insights into the nematic phase of all-aromatic liquid crystals
Filomena Catapano	Current sheets with inhomogeneous plasma temperature: Effects of polarization electric field and 2D solutions
Vito Capozzi	Raman investigation of human peripheral blood monocyte cells exposed to 1.8 GHz electromagnetic fields
Francesca Ripanti	Measuring oxidized DNA and RNA precursors by Micro-Raman spectroscopy
Victor Martn Galvn Josa	Study of manufacturing processes on archaeological ceramics by Small Angle Neutron Scattering
Vanni Antoni	Preliminary study for an alternative new concept of an efficient negative ion source
Stefano Atzeni	Synthetic diagnostics for laser-driven plasmas using hydrodynamic simulations

Sara Catalini	Vibrational study of self-assembly of proteins for the formation of hydrogels
Sarasadat Ghaffarioskooei	Frequency Shift of Raman Backscattering of High-Intensity Laser Beams in Magnetized Plasmas
Alessandra Gianoncelli	Recent developments and achievements at the TwinMic spectromicroscopy beamline of Elettra synchrotron
Seher Karakuzu	Superconductivity, charge-density waves, and antiferromagnetism in the Hubbard-Holstein model
Fabio Perissinotto	Iron induces specific interactions of alpha synuclein with artificial lipid bilayers
Francesco Orsini	Atomic force microscopy imaging of human aquaporin 4 expressed in Xenopus laevis oocytes
Sarasadat Ghaffarioskooei	A Kinetic Approach in the Analysis of Raman Scattering in a Plasma in the Presence of a Relativistic Electron Beam

Tuesday, October 3

Posters

Poster session Tuesday

Fatema Yahya Mohamed	Iron Phthalocyanine on ultrathin alumina template
Giacomo Messina	Characterization of 4H-Silicon Carbide addressed to thermo-optic effect at fiber- optic communication wavelengths
Lucia Coronel	Non-monotonic knotting probability and knot length of semiflexible rings: the competing roles of entropy and bending energy
David Roilo	Gas transport and free volume in epoxy resin nanocomposite membranes
Yusuf Shaidu	Lithium interaction with graphene and its fragments
Djelti Radouan	First principles prediction of thermodynamic properties of the orthorhombic CaGeO3 perovskite
Abhishek kumar	Influence of substrate dependent interface dipole on interface energetics of porphyrin adlayers
Jacopo Chiarinelli	ElectroSpray Deposition for biosensor application: instrument design and deposit analysis from ambient pressure to vacuum
Enrico Gianfranco Campari	Anelasticity and scaling effects in thin metal films
Cesare Grazioli	Electronic structure of short chain oligothiophenes: the role of the sulphur atom
Elena Molteni	Sp carbon chains suspended across nucleobase-functionalized Si(001) surfaces
Francesco Rundo, Sabrina Conoci, P.G. Fallica	An innovative Reaction-Diffusion Bio-inspired Pipeline for Physiological Signals Analysis
Giuseppe Mattioli	Design of Novel (1)Benzothieno(3,2-b)benzothiophene (BTBT) n-type Derivatives for Organic Electronics: A Joint Experimental and Ab Initio Investigation
Giuliana Faggio	Low temperature graphene as interfacial layer in graphene/Si Schottky barrier solar cells
Giorgio Biasiol	Diluted 2D electron gases in In0.75Ga0.25As/In0.75Al0.25As quantum wells
Pietro Anzini	How roughness affects the depletion mechanism
Yanier Crespo Hernandez	Pressure Induced Frictional Pinning Transition in Hetero-bilayers : h-BN/MoS2
Virginia Carnevali	Moir relations for a superlattice generated by two generic Bravais lattices
Tereza Steinhartova	Avalanche photodiodes based on GaAs/AlGaAs- the detectors for 4th generation light sources
Silvia Gabardi	Atomistic Simulations of Crystallization Kinetics and Aging of GeTe nanowires
Salvatore Petralia	NiO based nanostructures for sensor devices
Salvatore Petralia	A bifunctional graphene oxide nanohybrid for photostimulated nitric oxide release and photothermia

Sabrina Conoci	Electrochemical Biosensor for PCR free Nucleic Acids Detection
Roberto Costantini	SUNDYN: A novel setup for optical pump/X-ray probe spectroscopy at the ALOISA beamline
Riccardo Mincigrucci	New methodologies and tools to superpose IR and free electron laser beams
Benedetta Albini	Phase stabilty in pure and doped nanosized zinc ferrites: about intrisinc or extrinsic origin of superparamagnetism
Andrea Urru	Electronic surface states of Os(0001)
Marco Tardocchi	Fast neutron measurements with CVD diamonds detectors- Application to fusion plasmas and spallation neutron sources
Anna Santaniello	A new low-density material for Electron Paramagnetic Resonance sensing of X-ray radiation
Narjes Ansari	Non-Spherical Cavities in Liquid Water
Mirco Panighel	Controlling size and self-assembly of graphene nanoribbons by templating and functionalization
Jose Marquez-Velasco	HfTe2 a Dirac semimetal candidate
Maria Florencia Ludovico	Time resolved energy transfer in ac driven quantum dots: How to probe the energy reactance
Matus Stredansky	Synthesis of a novel boronic 2D material on Au(111)
Matteo Avolio	Comparison of the field and frequency dependence of Specific Absorption Rate of magnetic nanoparticles in water solution and agarose gel
Paolo Fantuzzi	Fabrication of graphene-based molecular junctions
Faustino Martelli	Ultrafast carrier dynamics in semiconductor nanowires

Poster session Wednesday

Estelle Maeva Inack	Understanding Quantum Annealing using projective Monte Carlo algorithms
Adriano Amaricci	Mott transitions with partially filled correlated orbitals
Caterina Ricci	The lipid membrane-amyloid peptide interaction: a neutron scattering study
Alberto Cappellaro	Equation of state and self-bound droplet in Rabi-coupled Bose mixtures
Alberto Simoncig	Coherent magnons in antiferromagnetic thin films stimulated by EUV pulses from the seeded free-electron laser FERMI
Alessio Lerose	Macroscopic chaos induced by quantum fluctuations near a dynamical phase transition
Angelo Valli	Size control of charge-orbital order and site-selective Mottness in nanoscopic La- doped Manganites
Damir Kopic	Time-resolved ARPES studies on high-temperature copper-oxide with VUV probe
Daniele Guerci	Coexistence of ferromagnetic metals in the Stoner model
Davide Soranzio	Time-resolved optical studies of the semi-metallic transition metal dichalcogenide WTe2
Andrea Ronchi	Ultrafast switching of metal-oxide heterostructures
Anna Maria Cucolo	Direct observation of superconducting vortex clusters in S/F hybrids
Chiara Bigi	Very Efficient Spin Polarization Analysis (VESPA): New Exchange Scattering- based Setup for Spin-resolved ARPES at APE-NFFA Beamline at Elettra
Laura Foglia	Four-wave-mixing experiments and beyond: The TIMER/mini-TIMER setups at FERMI
Paolo Franceschini	LaVO3-based heterostructures
Mattia Udina	CDW-Higgs mode and quasi-particle excitations in a charge-density-wave system
Renato Magli	The microscopic structure of liquid Ne and Xe.
Ruggero Lot	Accelerating Crystal Structure Prediction with Deep Neural Networks
Pietro Carretta	Charge order and orbital selective behaviour in iron-based superconductors: what do nuclei and muons tell us?
Lorenzo Crippa	Weyl semimetals in optical lattices and correlated solids
Maja Berovic	Charge compressibility in multi and Hubbard models
Kazuhiro Seki	Exploring isotropically stretched graphene by first-principles quantum Monte Carlo simulations
Sergio Ciuchi	Origin of Mooij correlations in disordered metals
Giulia Piccitto	Linear Response After a Quench in a Quantum Spin Chain
Yuichi Otsuka	Large-scale quantum Monte Carlo study of semimetal-superconductor phase transition in Dirac fermions

Georgios Kourousias	In-situ ptychography of dynamic processes: recent experiments and computational issues
Francesco Petocchi	Electron-phonon superconductivity and strong correlations: the doped Hubbard- Holstein model
Fernando Iemini	Majorana Quasi-Particles Protected by Z2 Angular Momentum Conservation
Sergio Ciuchi	Disorder-Driven Metal-Insulator Transitions in Deformable Lattices
Emma Fenude	Structural, Conformational, and Dynamical Properties of Repeat Motif in Wheat Gluten Protein.
Prasenjit Prasad Sukul	Photoluniescence studies in Yb 3+ /Er 3+ doped ferroelectric PbZrTiO 3 ceramics on various Tm 3+ concentrations

Poster session Thursday

Alberto Mittone	Phase contrast imaging of eyes: a study of feasibility
Serena Pacilè	Parameters affecting image quality in propagation-based phase-contrast breast CT
Sandro Donato	Phase-contrast breast CT : beamline upgrade for the implementation of a the clinical protocol
Angelo Mullaliu	OPERANDO CHARACTERIZATION OF A BATTERY MATERIAL: THE CASE OF COPPER NITROPRUSSIDE
Paolo Lotti	High-pressure and low-temperature behavior of colemanite: in situ synchrotron X-ray diffraction experiments
Lara Gigli	The high pressure-behavior of the 1-D K-aluminosilicate zeolite L: a synchrotron X-ray powder diffraction study
Marcello Coreno	A new XUV beamline for MOlecular Science and Technology: MOST @ Elettra
Federico Chiossi	Rare earth doped crystals scintillation amplified by laser excitation: a feasibility study
Luca Fardin	High-resolution temporally-resolved CT applied to cardiac induced lung motion
Luca Cozzarini	Development of a vacuum chamber for Time resolved X-ray absorption experiments
Luca Braglia	Developing of new setup at APE beamline for in situ/operando NEXAFS experiment on heterogeneous catalysts
Ilaria Carlomagno	Combined x-ray spectroscopies unravelling the complex nature of magnetic nanoparticles
Elisa Borfecchia	The potential of multivariate analysis of in situ XAS data: applications to Cu- zeolite nano-catalysts
Giorgia Confalonieri	Preliminary data on functionalized geopolymers via high-energy X-ray total scattering
Carlo Lamberti	Core-Shell Structure of Palladium Hydride Nanoparticles Revealed by Combined X-ray Absorption Spectroscopy and X-ray Diffraction

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Abate Antonio	Oct. 3	Advanced inorganic and hybrid materials for perovskite-based opt
Acciai Matteo	Oct. 2	Strongly Correlated and Disordered Electrons
Adorisio Matteo	Oct. 5	Biomolecular Modeling
Aichhorn Markus	Oct. 3	Strongly Correlated Multi-orbital systems
Alberti Tommaso	Oct. 1	Plasma Physics I
Albertini Franca	Oct. 2	Magnetic nanostructures, films and nanoparticles
Alfe Dario	Oct. 2	Computational Methods I
Altissimo Matteo	Oct. 5	Polymers, Organic molecules and Thin Films I
Amaricci Adriano	Oct. 3	Strongly Correlated Multi-orbital systems
Amati Matteo	Oct. 4	Advanced materials for photovoltaics and artificial photosynthesis
Ambrico Marianna	Oct. 5	Polymers, Organic molecules and Thin Films I
Ambrico Paolo	Oct. 2	Plasma Physics III
Ambrosetti Alberto	Oct. 2	Nanostructures and Nanotechnologies III
Amico Andrea	Oct. 2	Atoms and Molecules for Quantum Simulation
Antoni Vanni	Oct. 2	Plasma Physics II
Antonio Morone	Oct. 1	Nanostructures and Nanotechnologies I
Anzini Pietro	Oct. 3	Out of Equilibrium Statistical Physics I
Aquilanti Giuliana	Oct. 2	Nanostructures and Nanotechnologies II
Arceci Luca	Oct. 5	Non-equilibrium phenomena in open quantum system
Arletti Rossella	Oct. 5	SILS I
Armenise Iole	Oct. 1	Plasma Physics I
Aron Denis	Oct. 4	Superconductivity II
Asa Marco	Oct. 2	Spintronics, ferroelectrics and multiferroics
Atzeni Stefano	Oct. 2	Plasma Physics III
Aurelio Daniele	Oct. 5	Nanophotonics, plasmonics and photovoltaics
Avaldi Lorenzo	Oct. 4	Low-dimensional Materials III
Avella Adolfo	Oct. 5	Non-equilibrium phenomena in superconductors and correlated m
Aversa Rossella	Oct. 2	Nanostructures and Nanotechnologies II
Baby Anu	Oct. 5	Polymers, Organic molecules and Thin Films II
Bafile Ubaldo	Oct. 3	Out of Equilibrium Statistical Physics I
Banfi Francesco	Oct. 3	Novel non-equilibrium probes and emergent ultrafast phenomena
Bardelli Fabrizio	Oct. 1	Biomedicine and Biophysics I
Barla Alessandro	Oct. 3	Dynamics, atomic and molecular magnetism
Bartucci Rosa	Oct. 2	Biomedicine and Biophysics III
Baruselli Pier Paolo	Oct. 2	Strongly Correlated and Disordered Electrons
Basso Basset Francesco	Oct. 1	Nanostructures and Nanotechnologies I
Bathellier Didier	Oct. 3	Low-dimensional Materials II
Battisti Antonella	Oct. 1	Photonics for health
Behera Anurag	Oct. 1	Photonics for health
Bellissima Stefano	Oct. 1	Fluids and Soft Matter I
Bellissima Stefano	Oct. 6	SISN III

Author	Day	Session title
Bellissimo Alessandra	Oct. 3	Nanostructures and Nanotechnologies IV
Bellucci Luca	Oct. 3	Advanced inorganic and hybrid materials for perovskite-based opt
Bencivenga Filippo	Oct. 5	SILS II
Benedetti Francesco	Oct. 6	SILS III
Benedetto Antonio	Oct. 5	SISN I
Benenti Giuliano	Oct. 2	Photonics and Quantum Information III
Benfatto Lara	Oct. 2	Strongly Correlated and Disordered Electrons
Benni Irene	Oct. 5	Polymers, Organic molecules and Thin Films II
Bertoni Carlo Maria	Oct. 4	Low-dimensional Materials III
Bettati Stefano	Oct. 1	Biomedicine and Biophysics I
Bianconi Ginestra	Oct. 2	Complex Networks and Inference
Biella Alberto	Oct. 5	Non-equilibrium phenomena in open quantum system
Bigi Chiara	Oct. 3	Topological Matter I
Bignardi Luca	Oct. 2	Nanostructures and Nanotechnologies II
Bisio Francesco	Oct. 5	SILS II
Blasi Paolo	Oct. 3	Nanostructures and Nanotechnologies IV
Bodrenko Igor	Oct. 2	Biomedicine and Biophysics II
Bolognesi Paola	Oct. 6	SILS III
Bonanni Valentina	Oct. 5	SILS I
Bondani Maria	Oct. 2	Photonics and Quantum Information II
Bonetti Stefano	Oct. 3	Dynamics, atomic and molecular magnetism
Borghetti Patrizia	Oct. 5	Semiconductors and Oxides II
Borgonovi Fausto	Oct. 3	Out of Equilibrium Statistical Physics II
Bortolozzi Mario	Oct. 2	Biomedicine and Biophysics II
Boscherini Federico	Oct. 5	SILS I
Bottari Cettina	Oct. 2	Fluids and Soft Matter II
Bottegoni Federico	Oct. 5	Semiconductors and Oxides I
Braggio Alessandro	Oct. 5	Superconductivity III
Braggio Caterina	Oct. 3	Dynamics, atomic and molecular magnetism
Braglia Luca	Oct. 5	SILS II
Bravin Alberto	Oct. 6	SILS III
Brombal Luca	Oct. 6	SILS III
Brosco Valentina	Oct. 3	Strongly Correlated Multi-orbital systems
Brovko Oleg	Oct. 2	Magnetic nanostructures, films and nanoparticles
Bruni Fabio	Oct. 6	SISN III
Bugini Davide	Oct. 4	Ultrafast dynamics in 2D and topological materials
Caddeo Claudia	Oct. 2	Nanostructures and Nanotechnologies III
Calarco Raffaella	Oct. 5	Semiconductors and Oxides I
Calonico Davide	Oct. 3	Atoms and Molecules for Quantum Sensing and Metrology
Camerin Fabrizio	Oct. 3	Out of Equilibrium Statistical Physics II
Canale Claudio	Oct. 2	Biomedicine and Biophysics III

Author	Day	Session title
Cantoni Matteo	Oct. 2	Magnetic nanostructures, films and nanoparticles
Capaccioli Simone	Oct. 2	Biomedicine and Biophysics II
Capitani Francesco	Oct. 1	Matter in Extreme and metastable conditions
capone barbara	Oct. 2	Fluids and Soft Matter II
Capotondi Flavio	Oct. 3	Dynamics, atomic and molecular magnetism
Cappelluti Emmanuele	Oct. 5	Superconductivity III
Caputo Marco	Oct. 5	Semiconductors and Oxides I
Carbone Vincenzo	Oct. 1	Plasma Physics I
Cardano Filippo	Oct. 3	Quantum Fluids of atoms and light
Carlomagno Ilaria	Oct. 5	SILS I
Carnevali Virginia	Oct. 4	Low-dimensional Materials III
Carnimeo Ivan	Oct. 2	Computational Methods II
Carpene Ettore	Oct. 4	Superconductivity II
Carretta Stefano	Oct. 5	SISN II
Carusotto Iacopo	Oct. 3	Quantum Fluids of atoms and light
Casarin Barbara	Oct. 3	Nanostructures and Nanotechnologies IV
Caserta Sergio	Oct. 5	Complex Systems
Casula Michele	Oct. 2	Computational Methods I
Catani Jacopo	Oct. 2	Atoms and Molecules for Quantum Simulation
Cavallucci Tommaso	Oct. 3	Low-dimensional Materials I
Cea Tommaso	Oct. 5	Non-equilibrium phenomena in superconductors and correlated m
Cecconi Fabio	Oct. 5	Biomolecular Modeling
Cedola Alessia	Oct. 2	Biomedicine and Biophysics II
Cencetti Giulia	Oct. 3	Out of Equilibrium Statistical Physics I
Cerbino Roberto	Oct. 4	Statistical Physics Methods in Neuroscience and Biology
Cesari Andrea	Oct. 5	Biomolecular Modeling
Chen Xiao-Jia	Oct. 5	Superconductivity III
Chiarello Fabio	Oct. 2	Photonics and Quantum Information III
Chirolli Luca	Oct. 3	Topological Matter I
Cicala Grazia	Oct. 2	Plasma Physics III
Cilento Federico	Oct. 5	Non-equilibrium phenomena in superconductors and correlated m
Citro Roberta	Oct. 2	Atoms and Molecules for Quantum Simulation
Ciuchi Sergio	Oct. 2	Strongly Correlated and Disordered Electrons
Cojoc Dan	Oct. 2	Biomedicine and Biophysics III
Colonna Stefano	Oct. 2	Magnetic nanostructures, films and nanoparticles
Comin Riccardo	Oct. 4	Superconductivity II
Comini Elisabetta	Oct. 3	Sensors, Devices and Applications
Confalonieri Giorgia	Oct. 5	SILS II
Contera Sonia	Oct. 2	Biomedicine and Biophysics III
Corboz Philippe	Oct. 2	Computational Methods I
Cossaro Albano	Oct. 5	Polymers, Organic molecules and Thin Films I

Author	Day	Session title
Crespi Andrea	Oct. 2	Photonics and Quantum Information II
Cristoforetti Gabriele	Oct. 2	Plasma Physics III
Cuoco Mario	Oct. 4	Topological Matter II
Cusumano Stefano	Oct. 5	Nanophotonics, plasmonics and photovoltaics
Cuturello Francesca	Oct. 5	Complex Systems
D'Addato Sergio	Oct. 1	Nanostructures and Nanotechnologies I
Dal Conte Stefano	Oct. 4	Ultrafast dynamics in 2D and topological materials
Dalmonte Marcello	Oct. 3	Topological Matter I
D'Amico Arnaldo	Oct. 3	Sensors, Devices and Applications
D'Amico Francesco	Oct. 1	Biomedicine and Biophysics I
D'Amico Giulio	Oct. 3	Atoms and Molecules for Quantum Sensing and Metrology
D'Angelo Milena	Oct. 2	Photonics and Quantum Information II
D'Anna Andrea	Oct. 4	Environmental physics
Dasari Nagamalleswara	Oct. 5	Non-equilibrium phenomena in open quantum system
Davidson Bruce A.	Oct. 2	Spintronics, ferroelectrics and multiferroics
De Angelis Filippo	Oct. 4	Advanced materials for photovoltaics and artificial photosynthesis
De Giorgio Elisa	Oct. 1	Plasma Physics I
de Marco Carmen	Oct. 4	Environmental physics
De Martino Daniele	Oct. 4	Statistical Physics Methods in Neuroscience and Biology
de Medici Luca	Oct. 3	Strongly Correlated Multi-orbital systems
de Oteyza Dimas	Oct. 5	Polymers, Organic molecules and Thin Films I
De Palo Stefania	Oct. 3	Strongly Correlated Multi-orbital systems
De Pascale Olga	Oct. 1	Plasma Physics I
De Pasquale Antonella	Oct. 2	Photonics and Quantum Information III
Defenu Nicol	Oct. 3	Out of Equilibrium Statistical Physics I
Del Re Lorenzo	Oct. 2	Atoms and Molecules for Quantum Simulation
D'Elia Alessandro	Oct. 3	Strongly Correlated Multi-orbital systems
Dellasega David	Oct. 5	Semiconductors and Oxides I
Dengo Nicola	Oct. 6	SILS III
Detti Amelia	Oct. 3	Atoms and Molecules for Quantum Sensing and Metrology
Di Castro Carlo	Oct. 4	Superconductivity II
Di Ciolo Andrea	Oct. 2	Strongly Correlated and Disordered Electrons
Di Fraia Michele	Oct. 3	Novel non-equilibrium probes and emergent ultrafast phenomena
Di Pietro Paola	Oct. 5	Semiconductors and Oxides I
Di Sante Domenico	Oct. 4	Topological Matter II
Di Santo Giovanni	Oct. 5	Polymers, Organic molecules and Thin Films II
Dietler Giovanni	Oct. 1	Biomedicine and Biophysics I
Dolcet Paolo	Oct. 5	SILS II
Dragoni Daniele	Oct. 2	Computational Methods II
Drera Giovanni	Oct. 5	Semiconductors and Oxides II
Ercole Loris	Oct. 2	Computational Methods II

Author	Day	Session title
Eremets Mikhail	Oct. 1	Matter in Extreme and metastable conditions
Fadda Federico	Oct. 1	Fluids and Soft Matter I
Falci Giuseppe	Oct. 2	Photonics and Quantum Information III
Fallani Leonardo	Oct. 2	Atoms and Molecules for Quantum Simulation
Fanelli Duccio	Oct. 4	Statistical Physics Methods in Neuroscience and Biology
Fanfarillo Laura	Oct. 3	Superconductivity I
Fantoni Riccardo	Oct. 3	Nanostructures and Nanotechnologies IV
Fattori Marco	Oct. 3	Atoms and Molecules for Quantum Sensing and Metrology
Faverzani Marco	Oct. 3	Sensors, Devices and Applications
FAYE Jean Paul Latyr	Oct. 4	Superconductivity II
Fazio Maria Antonietta	Oct. 5	Semiconductors and Oxides II
Fazzini Serena	Oct. 2	Computational Methods I
Fernandez-Castanon Javi	Oct. 2	Fluids and Soft Matter II
Ferrante Camilla	Oct. 5	Complex Systems
Filippone Francesco	Oct. 5	Semiconductors and Oxides I
Flammini Davide	Oct. 5	SISN I
Flammini Roberto	Oct. 3	Topological Matter I
Floreano Luca	Oct. 5	Polymers, Organic molecules and Thin Films II
Fornari Roberto	Oct. 5	Semiconductors and Oxides II
Franchini Fabio	Oct. 2	Complex Networks and Inference
Fratesi Guido	Oct. 5	Polymers, Organic molecules and Thin Films II
Fratini Michela	Oct. 2	Biomedicine and Biophysics II
Fruk Ljiljana	Oct. 2	Biomedicine and Biophysics III
Fujii Jun	Oct. 4	Topological Matter II
Fumagalli Roberto	Oct. 4	Superconductivity II
Gadermaier Christoph	Oct. 4	Ultrafast dynamics in 2D and topological materials
Galvanetto Nicola	Oct. 1	Biomedicine and Biophysics I
Gambassi Andrea	Oct. 3	Out of Equilibrium Statistical Physics I
Gandolfi Marco	Oct. 3	Novel non-equilibrium probes and emergent ultrafast phenomena
Genuzio Francesca	Oct. 2	Magnetic nanostructures, films and nanoparticles
Gerardi Cosimo	Oct. 5	Nanophotonics, plasmonics and photovoltaics
Gerelli Yuri	Oct. 5	SISN I
Ghaffarioskooei Sarasad	Oct. 2	Plasma Physics III
Ghiringhelli Giacomo	Oct. 5	Superconductivity III
Ghirri Alberto	Oct. 1	Photonics and Quantum Information I
Giacomazzi Luigi	Oct. 5	Semiconductors and Oxides II
Giannetti Claudio	Oct. 5	Non-equilibrium phenomena in superconductors and correlated m
Giannozzi Paolo	Oct. 2	Nanostructures and Nanotechnologies II
Giardina Irene	Oct. 5	Complex Systems
Gigli Giuseppe	Oct. 5	Photonic Materials and Devices
Gigli Lorenzo	Oct. 2	Nanostructures and Nanotechnologies II

Author	Day	Session title
Giugliano Michele	Oct. 2	Biomedicine and Biophysics II
Giuliano Domenico	Oct. 2	Strongly Correlated and Disordered Electrons
Giuliano Rosa	Oct. 3	Topological Matter I
Giusti Francesca	Oct. 5	Superconductivity III
Glielmo Aldo	Oct. 2	Computational Methods I
Gnisci Andrea	Oct. 2	Nanostructures and Nanotechnologies II
Golez Denis	Oct. 5	Non-equilibrium phenomena in superconductors and correlated m
Gori Giacomo	Oct. 2	Complex Networks and Inference
Gorini Giuseppe	Oct. 6	SISN III
Gorodetsky Alon	Oct. 5	Polymers, Organic molecules and Thin Films II
Gradenigo Giacomo	Oct. 3	Out of Equilibrium Statistical Physics II
Grandi Francesco	Oct. 3	Strongly Correlated Multi-orbital systems
Grasselli Federico	Oct. 3	Low-dimensional Materials II
Guarini Eleonora	Oct. 2	Fluids and Soft Matter II
Guerci Daniele	Oct. 3	Low-dimensional Materials II
Guerra Roberto	Oct. 3	Low-dimensional Materials I
Hedayat Zadeh Roodsari	Oct. 3	Dynamics, atomic and molecular magnetism
Herbut Igor	Oct. 3	Topological Matter I
Heun Stefan	Oct. 4	Low-dimensional Materials III
Hofmann Philip	Oct. 3	Low-dimensional Materials I
Hostaa Jan	Oct. 5	Semiconductors and Oxides II
Hu Xiuqing	Oct. 4	Environmental physics
Illuminati Fabrizio	Oct. 2	Photonics and Quantum Information III
Imberti Silvia	Oct. 6	SISN III
Imberti Silvia	Oct. 6	SISN III
Irde Gabriele	Oct. 2	Nanostructures and Nanotechnologies III
Irrera Alessia	Oct. 3	Sensors, Devices and Applications
Isidori Aldo	Oct. 3	Strongly Correlated Multi-orbital systems
Iubini Stefano	Oct. 3	Out of Equilibrium Statistical Physics II
Janner Davide	Oct. 1	Photonics for health
Jayamaha Thineth	Oct. 3	Advanced inorganic and hybrid materials for perovskite-based opt
Jedrkiewicz Ottavia	Oct. 5	Photonic Materials and Devices
Joseph Boby	Oct. 1	Matter in Extreme and metastable conditions
Jugovac Matteo	Oct. 2	Nanostructures and Nanotechnologies III
Kandyba Viktor	Oct. 4	Low-dimensional Materials III
Khaja Nazeeruddin Moh	Oct. 3	Advanced inorganic and hybrid materials for perovskite-based opt
Kucukbenli Emine	Oct. 2	Computational Methods II
Kumar Gagan	Oct. 5	Photonic Materials and Devices
Lamporesi Giacomo	Oct. 2	Atoms and Molecules for Quantum Simulation
Lanka Pranav	Oct. 1	Photonics for health
Lapasin Romano	Oct. 5	Complex Systems

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Lascialfari Alessandro	Oct. 3	Superconductivity I
Lepore Maria	Oct. 2	Biomedicine and Biophysics III
Lepori Luca	Oct. 4	Topological Matter II
Leuzzi Luca Leuzzi	Oct. 2	Complex Networks and Inference
Lo Faro Maria Jos	Oct. 5	Photonic Materials and Devices
Lo Franco Rosario	Oct. 1	Photonics and Quantum Information I
Locatelli Emanuele	Oct. 1	Fluids and Soft Matter I
Lovecchio Cosimo	Oct. 2	Photonics and Quantum Information III
Lucchini Matteo	Oct. 4	Ultrafast dynamics in 2D and topological materials
Lupo Cosimo	Oct. 2	Complex Networks and Inference
Maccari Ilaria	Oct. 2	Strongly Correlated and Disordered Electrons
Macchi Andrea	Oct. 2	Plasma Physics III
Maccone Lorenzo	Oct. 3	Sensors, Devices and Applications
Manghi Franca	Oct. 4	Ultrafast dynamics in 2D and topological materials
Manini Nicola	Oct. 2	Nanostructures and Nanotechnologies III
Marciniak Alexandre	Oct. 5	Non-equilibrium phenomena in superconductors and correlated m
Marenda Mattia	Oct. 5	Biomolecular Modeling
Mariani Manuel	Oct. 3	Dynamics, atomic and molecular magnetism
Marrelli Lionello	Oct. 2	Plasma Physics II
Marsili Matteo	Oct. 2	Complex Networks and Inference
Martelli Faustino	Oct. 5	Nanophotonics, plasmonics and photovoltaics
Marti Xavier	Oct. 2	Spintronics, ferroelectrics and multiferroics
Martines Emilio	Oct. 2	Plasma Physics III
Martini Leonardo	Oct. 3	Low-dimensional Materials II
Massimi Lorenzo	Oct. 2	Biomedicine and Biophysics II
Mattioli Giuseppe	Oct. 4	Advanced materials for photovoltaics and artificial photosynthesis
Mattoni Alessandro	Oct. 3	Advanced inorganic and hybrid materials for perovskite-based opt
Mazza Giacomo	Oct. 3	Novel non-equilibrium probes and emergent ultrafast phenomena
Mazzola Guglielmo	Oct. 1	Matter in Extreme and metastable conditions
Mendoza Luna Luis Guil	Oct. 4	Advanced materials for photovoltaics and artificial photosynthesis
Menotti Matteo	Oct. 2	Photonics and Quantum Information II
Merano Michele	Oct. 3	Low-dimensional Materials I
Milani Alberto	Oct. 1	Nanostructures and Nanotechnologies I
Minina Elena	Oct. 2	Fluids and Soft Matter II
Mino Lorenzo	Oct. 6	SILS III
Molteni Elena	Oct. 5	Polymers, Organic molecules and Thin Films I
Mondelli Claudia	Oct. 5	SISN I
Montangero Simone	Oct. 2	Photonics and Quantum Information III
Moroni Matteo	Oct. 3	Superconductivity I
Moros Alice	Oct. 5	SILS I
Mossa Stefano	Oct. 3	Out of Equilibrium Statistical Physics I

Author	Day	Session title
Motti Federico	Oct. 2	Magnetic nanostructures, films and nanoparticles
Mukamel David	Oct. 3	Out of Equilibrium Statistical Physics I
Muna Gianmarco	Oct. 3	Nanostructures and Nanotechnologies IV
Musto Mattia	Oct. 2	Biomedicine and Biophysics II
Nahali Negar	Oct. 5	Biomolecular Modeling
Nappini Silvia	Oct. 2	Nanostructures and Nanotechnologies III
Natali Francesca	Oct. 5	SISN II
Nava Andrea	Oct. 5	Non-equilibrium phenomena in superconductors and correlated m
Nigro Valentina	Oct. 1	Fluids and Soft Matter I
Nocente Massimo	Oct. 2	Plasma Physics II
Nocera Alberto	Oct. 4	Superconductivity II
Notarnicola Simone	Oct. 3	Novel non-equilibrium probes and emergent ultrafast phenomena
Orecchini Andrea	Oct. 5	SISN II
Orecchini Andrea	Oct. 6	SISN III
Orgiani Pasquale	Oct. 5	Semiconductors and Oxides II
Orsini Francesco	Oct. 2	Biomedicine and Biophysics III
Ortenzi Luciano	Oct. 3	Low-dimensional Materials I
Ottaviano Luca	Oct. 3	Low-dimensional Materials I
Paccagnella Roberto	Oct. 2	Plasma Physics II
Paciaroni Alessandro	Oct. 3	Nanostructures and Nanotechnologies IV
Pagliusi Pasquale	Oct. 3	Sensors, Devices and Applications
Paladino Elisabetta	Oct. 1	Photonics and Quantum Information I
Palma Massimo	Oct. 1	Photonics and Quantum Information I
Palumbo Mauro	Oct. 1	Matter in Extreme and metastable conditions
Panighel Mirco	Oct. 3	Nanostructures and Nanotechnologies IV
Panizon Emanuele	Oct. 3	Nanostructures and Nanotechnologies IV
Pappalardi Silvia	Oct. 5	Non-equilibrium phenomena in open quantum system
Parisi Antonino	Oct. 1	Photonics for health
Parisse Pietro	Oct. 1	Biomedicine and Biophysics I
Pascazio Saverio	Oct. 2	Photonics and Quantum Information III
Pasquali Luca	Oct. 5	Polymers, Organic molecules and Thin Films I
Passoni Marco	Oct. 5	Photonic Materials and Devices
Paternostro Mauro	Oct. 2	Photonics and Quantum Information III
Pavesi Lorenzo	Oct. 5	Photonic Materials and Devices
Payne Daniel	Oct. 3	Novel non-equilibrium probes and emergent ultrafast phenomena
Peddis Davide	Oct. 2	Magnetic nanostructures, films and nanoparticles
Pegoraro Francesco	Oct. 2	Plasma Physics II
Pellegrini Franco	Oct. 3	Out of Equilibrium Statistical Physics II
Pellegrino Francesco Ma	Oct. 3	Low-dimensional Materials II
Pelli Cresi Jacopo Stefan	Oct. 1	Nanostructures and Nanotechnologies I
Perali Andrea	Oct. 3	Superconductivity I

Author	Day	Session title
Peronaci Francesco	Oct. 5	Non-equilibrium phenomena in open quantum system
Perroni Carmine Antonio	Oct. 1	Nanostructures and Nanotechnologies I
Perucchi Andrea	Oct. 3	Topological Matter I
Perucchi Andrea	Oct. 5	SILS II
Petaccia Luca	Oct. 3	Low-dimensional Materials I
Petocchi Francesco	Oct. 3	Strongly Correlated Multi-orbital systems
Petrillo Caterina	Oct. 5	SISN II
Petrov Aleksandr	Oct. 2	Spintronics, ferroelectrics and multiferroics
Pezze' Luca	Oct. 3	Quantum Fluids of atoms and light
Pezzi Oreste	Oct. 1	Plasma Physics I
Piatti Erik	Oct. 5	Superconductivity III
Picone Andrea	Oct. 5	Semiconductors and Oxides II
Pidatella Angelo	Oct. 2	Strongly Correlated and Disordered Electrons
Pierleoni Carlo	Oct. 1	Matter in Extreme and metastable conditions
Pietracaprina Francesca	Oct. 3	Out of Equilibrium Statistical Physics I
Pietralunga Silvia Maria	Oct. 5	Semiconductors and Oxides II
Pietropaolo Antonino	Oct. 5	SISN I
Piotto Chiara	Oct. 5	Polymers, Organic molecules and Thin Films II
Piovano Andrea	Oct. 5	SISN II
Pis Igor	Oct. 3	Low-dimensional Materials I
Plastina Francesco	Oct. 2	Photonics and Quantum Information III
Pogna Eva Arianna Aure	Oct. 4	Ultrafast dynamics in 2D and topological materials
Poli Emiliano	Oct. 5	Complex Systems
Pontoni Diego	Oct. 6	SILS III
Prezzi Deborah	Oct. 4	Low-dimensional Materials III
Principi Emiliano	Oct. 3	Novel non-equilibrium probes and emergent ultrafast phenomena
Privitera Lorenzo	Oct. 4	Topological Matter II
Profeta Gianni	Oct. 3	Superconductivity I
Puglisi Andrea	Oct. 3	Out of Equilibrium Statistical Physics II
Qaisrani Muhammad Na	Oct. 2	Computational Methods II
Raimondi Roberto	Oct. 2	Spintronics, ferroelectrics and multiferroics
Raychaudhuri Pratap	Oct. 2	Strongly Correlated and Disordered Electrons
Rezvani S. Javad	Oct. 5	SILS II
Ricci Caterina	Oct. 1	Biomedicine and Biophysics I
Righetto Marcello	Oct. 1	Nanostructures and Nanotechnologies I
Rinaldi Christian	Oct. 2	Spintronics, ferroelectrics and multiferroics
Rizza Carlo	Oct. 5	Photonic Materials and Devices
Rocca Mario	Oct. 2	Nanostructures and Nanotechnologies II
Rodeghero Elisa	Oct. 6	SILS III
Romano Giovanni	Oct. 1	Photonics for health
Rondelli Valeria	Oct. 5	SISN II

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Author	Day	Session title
Ronetti Flavio	Oct. 3	Topological Matter I
Ronti Michela	Oct. 1	Fluids and Soft Matter I
Rossi Barbara	Oct. 1	Fluids and Soft Matter I
Rossi Giorgio	Oct. 5	SILS I
Rossini Davide	Oct. 5	Non-equilibrium phenomena in open quantum system
Rota Riccardo	Oct. 3	Quantum Fluids of atoms and light
Rovigatti Lorenzo	Oct. 1	Fluids and Soft Matter I
Rubini Silvia	Oct. 1	Nanostructures and Nanotechnologies I
Ruiz Franco Jose Manuel	Oct. 2	Fluids and Soft Matter II
Rusishvili Mariami	Oct. 2	Computational Methods II
Rusponi Stefano	Oct. 3	Dynamics, atomic and molecular magnetism
Russomanno Angelo	Oct. 5	Non-equilibrium phenomena in open quantum system
Rutigliano Maria	Oct. 2	Plasma Physics III
Sabbagh Haidar	Oct. 5	Complex Systems
Sacepe Benjamin	Oct. 3	Low-dimensional Materials II
Sala Alessandro	Oct. 4	Low-dimensional Materials III
Salerno Grazia	Oct. 3	Quantum Fluids of atoms and light
Salles Nicolas	Oct. 5	Semiconductors and Oxides I
Salvi Leonardo	Oct. 3	Atoms and Molecules for Quantum Sensing and Metrology
Sangalli Davide	Oct. 4	Ultrafast dynamics in 2D and topological materials
Sangiovanni Giorgio	Oct. 4	Topological Matter II
Sanna Samuele	Oct. 3	Superconductivity I
Sannino Alessia	Oct. 4	Environmental physics
Sanvitto Daniele	Oct. 5	Nanophotonics, plasmonics and photovoltaics
Satta Alessandra	Oct. 2	Computational Methods II
Sattin Fabio	Oct. 2	Plasma Physics II
Scaini Denis	Oct. 2	Biomedicine and Biophysics II
Scarin Paolo	Oct. 2	Plasma Physics II
Scarlatella Orazio	Oct. 3	Quantum Fluids of atoms and light
Schiavon Matteo	Oct. 2	Photonics and Quantum Information II
Schio Luca	Oct. 5	Polymers, Organic molecules and Thin Films II
Schuetz Philipp	Oct. 4	Topological Matter II
Sciarrino Fabio	Oct. 2	Photonics and Quantum Information II
Scollo Simona	Oct. 4	Environmental physics
Scoppola Ernesto	Oct. 5	SISN I
Secchi Eleonora	Oct. 4	Statistical Physics Methods in Neuroscience and Biology
Senatore Gaetano	Oct. 5	Superconductivity III
Sennato Simona	Oct. 2	Fluids and Soft Matter II
Seno Flavio	Oct. 3	Out of Equilibrium Statistical Physics II
Seriani Nicola	Oct. 4	Advanced materials for photovoltaics and artificial photosynthesis
Serianni Gianluigi	Oct. 2	Complex Networks and Inference

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Serio Carmine	Oct. 4	Environmental physics
Sheverdyaeva Polina	Oct. 4	Low-dimensional Materials III
Silva Alessandro	Oct. 5	Non-equilibrium phenomena in open quantum system
Silvestrin Luca	Oct. 6	SISN III
Skrbic Tatjana	Oct. 1	Fluids and Soft Matter I
Smerieri Marco	Oct. 3	Low-dimensional Materials II
Smerzi Augusto	Oct. 2	Photonics and Quantum Information II
Snchez Pedro A.	Oct. 5	Complex Systems
Sorrentino Alberto	Oct. 4	Environmental physics
Sotillo Belen	Oct. 5	Nanophotonics, plasmonics and photovoltaics
Sparapassi Giorgia	Oct. 3	Novel non-equilibrium probes and emergent ultrafast phenomena
Spera Marcello	Oct. 4	Superconductivity II
Spinozzi Francesco	Oct. 2	Biomedicine and Biophysics III
Sterzi Andrea	Oct. 3	Topological Matter I
Suma Antonio	Oct. 5	Biomolecular Modeling
Suweis Samir	Oct. 5	Complex Systems
Tacchino Francesco	Oct. 1	Photonics and Quantum Information I
Taccogna Francesco	Oct. 2	Plasma Physics II
Tafuri Francesco	Oct. 5	Superconductivity III
Tagliacozzo Arturo	Oct. 3	Superconductivity I
Taroni Paola	Oct. 1	Photonics for health
Tavagnacco Letizia	Oct. 2	Fluids and Soft Matter II
Tedeschi Davide	Oct. 5	Semiconductors and Oxides I
Teruzzi Martina	Oct. 2	Nanostructures and Nanotechnologies III
Tettamanti Manuele	Oct. 3	Quantum Fluids of atoms and light
Tiana Guido	Oct. 5	Biomolecular Modeling
Tocchio Luca Fausto	Oct. 2	Computational Methods I
Tomadin Andrea	Oct. 4	Ultrafast dynamics in 2D and topological materials
Toninelli Costanza	Oct. 1	Photonics and Quantum Information I
Torchi Andrea	Oct. 2	Computational Methods II
Torelli Piero	Oct. 5	SILS I
Torelli Piero	Oct. 2	Spintronics, ferroelectrics and multiferroics
Torrisi Giacomo	Oct. 3	Advanced inorganic and hybrid materials for perovskite-based opt
Torsello Daniele	Oct. 3	Superconductivity I
Toschi Francesco	Oct. 4	Advanced materials for photovoltaics and artificial photosynthesis
Trapananti Angela	Oct. 5	SILS II
Trappe Veronique	Oct. 2	Fluids and Soft Matter II
Travaglia Elisabetta	Oct. 3	Low-dimensional Materials I
Traverso Ziani Niccol	Oct. 4	Topological Matter II
Trombettoni Andrea	Oct. 2	Atoms and Molecules for Quantum Simulation
Trovato Antonio	Oct. 5	Biomolecular Modeling

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Author	Day	Session title
Tubiana Luca	Oct. 5	Biomolecular Modeling
Ulivi Lorenzo	Oct. 1	Matter in Extreme and metastable conditions
Ulman Kanchan	Oct. 4	Advanced materials for photovoltaics and artificial photosynthesis
Urso Mario	Oct. 3	Sensors, Devices and Applications
Valentinis Davide	Oct. 3	Superconductivity I
Valli Angelo	Oct. 2	Magnetic nanostructures, films and nanoparticles
Vannucci Luca	Oct. 3	Low-dimensional Materials II
Varsano Daniele	Oct. 2	Computational Methods II
Vaskivskyi Igor	Oct. 5	Non-equilibrium phenomena in superconductors and correlated m
Vassallo Espedito	Oct. 1	Biomedicine and Biophysics I
Vattuone Luca	Oct. 4	Low-dimensional Materials III
Vavassori Paolo	Oct. 2	Magnetic nanostructures, films and nanoparticles
Velli Marco	Oct. 1	Plasma Physics I
Verdini Alberto	Oct. 5	Polymers, Organic molecules and Thin Films II
Verna Adriano	Oct. 5	SILS II
Vesselli Erik	Oct. 2	Nanostructures and Nanotechnologies II
Vezzani Alessandro	Oct. 3	Out of Equilibrium Statistical Physics II
Villoresi Paolo	Oct. 2	Photonics and Quantum Information II
Vinai Giovanni Maria	Oct. 2	Spintronics, ferroelectrics and multiferroics
Virga Alessandra	Oct. 4	Ultrafast dynamics in 2D and topological materials
Vitali David	Oct. 1	Photonics and Quantum Information I
Vobornik Ivana	Oct. 4	Topological Matter II
Wang Xuan	Oct. 4	Environmental physics
Wimberger Sandro	Oct. 1	Photonics and Quantum Information I
Winkler Bla	Oct. 5	Semiconductors and Oxides I
Wintterlin Joost	Oct. 2	Nanostructures and Nanotechnologies III
Wysokiski Marcin	Oct. 2	Strongly Correlated and Disordered Electrons
Yivlialin Rossella	Oct. 3	Sensors, Devices and Applications
Yunoki Seiji	Oct. 2	Computational Methods I
Zamborlini Giovanni	Oct. 5	Polymers, Organic molecules and Thin Films I
Zampieri Mattia	Oct. 4	Statistical Physics Methods in Neuroscience and Biology
Zani Maurizio	Oct. 5	Semiconductors and Oxides II
Zanotti Gloria	Oct. 4	Advanced materials for photovoltaics and artificial photosynthesis
Zardo Ilaria	Oct. 1	Nanostructures and Nanotechnologies I
Zecchina Riccardo	Oct. 4	Statistical Physics Methods in Neuroscience and Biology
Zen Andrea	Oct. 2	Computational Methods I
Ziherl Primoz	Oct. 1	Fluids and Soft Matter I
Zimbardo Gaetano	Oct. 1	Plasma Physics I
Zucchiatti Paolo	Oct. 1	Biomedicine and Biophysics I
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