



PhD Program in Nanotechnology

Annual Meeting 2018 – Programme

Building H3, room 2B

Tuesday 23/01/2018

time	PhD student	cycle	Supervisor	Title
14:00	Opening: Prof. Lucia Pasquato – coordinator of the PhD Course in Nanotechnology Prof. Maurizio Fermeglia – Rector of the University of Trieste Prof. Fulvio Parmigiani – Director of the Department of Physics			
chair: Maurizio Fermeglia				
14:30	Elisa D'Este Max Planck Institute for Biophysical Chemistry, Department of NanoBiophotonics Göttingen, Germany “Optical nanoscopy reveals unprecedented cytoskeletal features in the nervous system”			
15:30	break			
chair: Silvia Marchesan				
15:45	Azzalini Eros	32	S. Bonin	Comprehensive characterization and effective combinatorial targeting of high-grade serous ovarian cancer via single-cell analysis
16:05	Costantini Roberto	32	A. Cossaro/A. Morgante	SUNDYN: a novel setup for time-resolved X-ray spectroscopies at Elettra
16:25	Cotta Valeria	32	D. Cojoc/M. Lazzarino	Characterization of the mechanical properties of a target protein under the influence of a local thermal gradient
16:45	Cringoli Maria Cristina	32	S. Marchesan/P. Fornasiero	A spike of sulphur in self-assembling tripeptides
17:05	D'Elia Alessandro	32	M. Coreno/A. Morgante	Photoexcitation and charge transfer in nanostructured materials and precursors
17:25	break			
chair: Francesca Larese Filon				
17:40	Furlani Franco	32	S. Paoletti	Polysaccharide-based materials for cartilage regeneration
18:00	Iacuzzi Valentina	32	G. Toffoli	Design of detection systems for the therapeutic drug monitoring of anticancer drugs
18:20	Ronchese Paolo	32	L. Pasquato	Synthesis of New Materials through Controlled Self Assembly of Mixed-Monolayer Gold Nanoparticles
18:40	Tofanelli Margherita	31	R. Di Lenarda/G. Tirelli	Application of nanotechnology to the diagnosis and treatment of the oral and oropharyngeal cancer
19:00	Zanoni Ilaria	32	A. Costa/F. Larese Filon	Design e characterization of nanomaterials for monitoring their biological reactivity

PhD Program in Nanotechnology

Wednesday 24/01/2018

time	PhD student	cycle	Supervisor	Title
Chair: Tatiana Da Ros				
9:00	Boccardo Silvia	31	P. Posocco	Computational Investigation of Nanoparticles at the Biointerface
9:20	Corva Manuel	31	E. Vesselli	Tunable FePc self-assembly on Cu-decorated alumina thin film
9:40	Gurian Elisa	31	V. Sergo	Nanobiosensors for early cancer diagnosis
10:00	Squarcia Laura	31	O. Sbaizero	Multidisciplinary research on measurement methods and technologies enabling the development of sensors for water disinfection systems
10:20	Kumar Abhishek	31	M. Pedio	Growth and advanced characterization of nanostructured molecular films
10:40	break			
chair: Vanni Lughì				
11:00	Lenarda Anna	31	P. Fornasiero	Smart materials for energy applications
11:20	Pecorari Ilaria	31	O. Sbaizero	Mechanical properties of cells with genetic modifications
11:40	Vecchies Federica	31	S. Paoletti	Development and characterization of polysaccharide-based nano-complexes for cartilage regeneration
12:00	Steinhartova Tereza	31	G. Biasiol	Avalanche photodiodes for X-ray detectors based on GaAs/AlGaAs semiconductors
12:20	Stredansky Matus	31	A. Morgante	Hetero-organic assembly of functionalized molecules on low-dimensional materials
12:40	lunch			
chair: Lucia Pasquato				
15:00	Paolo Milani CIMAINA and Dipartimento di Fisica, Università di Milano, Milano, Italy “Fabrication of Biomimetic Complex Systems by Supersonic Cluster Beam Deposition: from Soft Actuation to Neural Computing”			
16:00	break			
chair: Lisa Vaccari				
16:20	Zucchiatti Paolo	31	L. Vaccari	Structural characterization of functional proteins in physiological environment by Synchrotron Radiation Collective Enhancement IR Absorption (SR-CEIRA) microscopy
16:40	Rupel Katia	30	R. Di Lenarda	Application of Nano-techniques to a flexible bronco-fiberscope to disrupt resistant infections in a cystic fibrosis model
17:00	Chiarappa Gianluca	30	M. Grassi/S. Pricl	Drug nanocrystals in drug delivery and pharmacokinetics

PhD Program in Nanotechnology

Thursday 25/01/2018

time	PhD student	cycle	Supervisor	Title
chair: Marco Lazzarino				
9:00	Slejko Emanuele Alberto	30	V. Lughi	Functional heterostructures based on colloidal nanocrystals
9:20	Colombo Federico	30	P. Macor/	New perspectives in the diagnosis and treatment of rheumatoid arthritis by targeting inflamed synovia with biodegradables nanoparticles (BNPs)
9:40	Greco Silvio M.L.	30	M. Lazzarino	Frequency modulation approach to LSPR: enhanced Raman scattering experiments
10:00	Kalaja Odeta	30	I. Donati/ F. Tramer	Nanoparticles based delivery System of Flavonoids for Cancer Therapy
10:20	Masciotti Valentina	30	M. Lazzarino	3D DNA origami structure as force tension detection tool
10:40	break			
chair: Alessandro Baraldi				
11:00	Palazzolo Stefano	30	G. Toffoli	Engineered DNA nanostructures for targeted breast cancer therapy
11:20	Presel Francesco	30	A. Baraldi	Adsorption and interaction of atoms, molecules and nanoclusters on epitaxial graphene
11:40	Travaglia Elisabetta	30	S. Lizzit/A. Baraldi	Study of the growth and of the chemical, structural and electronic properties of two-dimensional materials and heterostructures
12:00	Brich Silvia	30	S. Pricl	Targeting a solitary fibrous tumor cell line using a novel nanomicelle formulation to enhance curcumin antitumor activity
12:20	lunch			
chair: Loredana Casalis				
15:00	Rago Ilaria	30	L. Casalis	CNTs nanostructured scaffolds: a potential way to tune cellular morphology and properties.
15:20	Ullua Severino Luisa	30	D. Scaini	Mechanobiology measurements in the onset of Calcific Aortic Valve Disease
15:40	Lanzicher Thomas	30	O. Sbaizero	Mechanical and biophysical properties of single cells
16:00	Mio Andrea	30	M. Fermeglia	A multiscale methodology for the preliminary screening of alternative process designs from a sustainability viewpoint adopting molecular and process simulation along with data envelopment analysis
16:20	break			
16:40	"Fernando Tommasini" Award "Best Career" Award Final remarks			