

Monday, 3 July 2023

13:45 shuttle Hotel - Cnr Nanotec

14:00 Welcome - Giuseppe Gigli, Cnr Nanotec Director & TecnoMed Puglia Coordinator

14:15 CNR Nanotec Institute research activities

Luca Leuzzi, Roma

Fiorenza Fanelli; Silvia Colella, Bari

Roberto Termine, Rende

Loretta Del Mercato, Lecce

16:15 coffee break

16:30 Onset of vortex clustering and inverse energy cascade in dissipative quantum fluids

Riccardo Panico, Lecce

16:45 A deep insight into structure and surface chemistry of 2D chalcogenides layers

Elena Dilonardo, Bari

17:00 Simultaneous extraction of calcium phosphates and proteins from fish bones. Innovative valorisation of food by-products

Clara Piccirillo, Lecce

17:15 Fluorescence features of *Opuntia ficus-indica* cladodes as promising tool for BIOOptical applications

Oriella Gennari, Rende

17:30 Inside Biopolymer-mediated Perovskite self-assembly: an effective approach towards the scalability

Antonella Giuri, Lecce

17:45 Plasma-Driven Atomic Scale Engineering of Metal Halide Perovskite Surfaces: Rationale and Photovoltaic Application

Alberto Perrotta, Bari

18:00 Optimization of colloidal self-assembly and lithography for chiral plasmonic structures

Valeria Lotito, Lecce

18:30 shuttle Cnr Nanotec - Lido Puntarenas

23:30 shuttle Lido Puntarenas - Hotel

20:00 Dinner @Lido Puntarenas

Tuesday, 4 July 2023

08:45 shuttle Hotel - Cnr Nanotec

09:15 Multilevel X-ray imaging approach to assess the sequential evolution of multi-organ damage in neurodegenerative diseases

Francesca Palermo, Roma

09:30 Role of glycosylation-related genes in signaling pathways, metabolism and diseases

Antonio Galeone, Lecce

09:45 Multiple instance Learning approaches for E-health and advanced diagnostics

Eugenio Vocaturo, Rende

10:00 The oncogene GOLPH3 regulates sphingolipid metabolism and cell proliferation

Riccardo Rizzo, Lecce

10:15 Memory and rejuvenation effects in spin glasses are governed by more than one length scale

Ilaria Paga, Roma

10:30 Probing Single-Cell Fermentation Fluxes and Exchange Networks via pH-Sensing Hybrid Nanofibers

Stefania Forciniti, Lecce

10:45 Cytoplasmic HDAC4 regulates the membrane repair mechanism in Duchenne muscular dystrophy

Viviana Moresi, Roma

11:30 coffee break

12:00 Administration

Eugenia Sansone, Bari

12:15 Technology Transfer

Vincenzo Maiorano, Lecce

12:30 Communication & Dissemination

Gabriella Zammillo, Lecce

12:45 Discussion

13:30 Light Lunch & Poster Session

14:30 Strongly enhanced light-matter coupling of a monolayer WS₂ from a bound state in the continuum

Laura Polimeno, Lecce

14:45 Plasma-activated medium triggers cell death and the presentation of immune activating danger signals in melanoma and pancreatic cancer cells

Eloisa Sardella, Bari

15:00 All optical computation with Disorder and wavefront shaping: Spin Glass Dynamics and Deep Learning

Marco Leonetti, Roma

15:15 Hybrid anticounterfeiting tag with camouflaged multi security levels

Antonio Ferraro, Rende

15:30 Tuning dimensionality of Quasi-2D Perovskite Single Crystals: a rational approach

Rossana Mastroia, Lecce

15:45 Effective hole conductivity in nitrogen-doped CVD-graphene by singlet oxygen treatment under photoactivation conditions

Giuseppe Valerio Bianco, Bari

16:00 Unmasking the biophysical interaction of cells under mechanical and electrical cues

Barbara Cortese, Roma

16:15 Capillary surfers and spinners on a vibrating liquid bath

Giuseppe Pucci, Rende

16:30 coffee break

17:00 New challenges and opportunities

Alessia Cedola - Roma; Michele Giocondo - Rende; Fabio Palumbo - Bari; Giuseppe Gigli - Lecce

18:00 shuttle Cnr Nanotec - Hotel

19:00 shuttle Hotel - Tenuta "Li Calizzi" a/r

19:30 Dinner @"Li Calizzi"

Wednesday, 5 July 2023

08:45 navetta Hotel - Cnr Nanotec

09:30 exhibit "Le forme dell'invisibile"

12:30 Light Lunch

14:00 Conclusion

Scientific Committee: Alessia Cedola, Giuseppe Gigli, Michele Giocondo, Fabio Palumbo

Coordination: Gabriella Zammillo

Organization: Stefania D'Amone, Gianvito De Iaco, Loretta L. del Mercato, Mino Franza, Francesca Gervaso, Gabriella Zammillo

Administrative services: Tommaso De Carlo, Maria Giovanna Santoro



CNR Nanotec @Lecce, 3 | 5 July 2023

