Session Program

Dec 18 – 20, 2018

Nanoscience and Nanotechnology

Transport properties, Plasmonics and Optoelectronics

Laboratori Nazionali di Frascati, Aula Touschek

Tue, December 18

2:30 PM

Transport properties, Plasmonics and Optoelectronics

Session | **Location:** Laboratori Nazionali di Frascati, Aula Salvini

2:30 – 2:55 PM **Graphene/ferroelectric devices**

Speaker
Mircea DRAGOMAN

2:55 – 3:20 PM **High frequency devices and circuits based on Graphene**

Speaker
Renato Negra

3:20 – 3:45 PM

Position-controlled patterning of the electronic and structural properties of bulk transition-metal dichalcogenides by proton-driven micro/nano-dome formation

Speaker
Antonio Polimeni

3:45 – 4:10 PM

The forward rainbow scattering of low energy protons by a graphene sheet

Speaker
Marko Ćosić

4:35 PM

Wed, December 19

4:10 PM

Transport properties, Plasmonics and Optoelectronics

Session | **Location:** Laboratori Nazionali di Frascati, Aula Touschek

4:10 – 4:35 PM

Graphene Based Photonics: Enabling the Networked Society of the Future

Speaker
Wolfgang Templ

4:35 – 5:00 PM

Nanoarchitectronics and The Nano-Engineering Mission

Speaker
Stefano Maci

5:00 PM

5:25 PM

Transport properties, Plasmonics and Optoelectronics

Session | **Location:** Laboratori Nazionali di Frascati, Aula Touschek

5:25 – 5:50 PM

Quantum-electrical characterization of single electron device systems

Speaker
Luca Pierantoni

5:50 – 6:15 PM

Opto-mechanical modelling by time-harmonic Transformation Optics and TRL calibration

Speaker
Davide Mencarelli

6:15 – 6:40 PM

Robust Design applied to a Large-Signal Model of Graphene Field-Effect Transistors

Speaker
Patrizia LAMBERTI

6:40 – 7:05 PM

Iontronics: fundamentals, applications and the case of ionic liquid-gated InAs nanowire FETs

Speaker
Francesco Rossella

7:05 PM

Thu, December 20

4:45 PM

Transport properties, Plasmonics and Optoelectronics

Session | **Location:** Laboratori Nazionali di Frascati, Aula Salvini | **Convener:** Luigi Ferrigno

4:45 – 5:10 PM

Epitaxial growth of graphene and 2D heterostructures on SiC for nanoelectronic applications

Speaker
Prof. Nunzio Motta

5:10 – 5:35 PM

Tunable Microwave Components based on Few-Layer Graphene

Speaker
Mr Muhammad Yasir

5:35 – 6:00 PM

Electrical applications of graphene-nanoplatelets

Speaker
Antonio Maffucci

6:00 – 6:25 PM

When loss destroys the Hilbert space: Purcell factors and strong coupling in plasmonic systems

Speaker
Christian WOLFF

6:25 – 6:45 PM

Tuning of Microwave Interaction by Multi-Layer Carbon Nano-Composites

Speaker
Roberto Pastore

6:50 PM