

Italian and Chinese bilateral workshop

“3D Graphene: From fundamental properties to applications”

Rome, Italy October 1-2, 2018

Sala Lauree - Sapienza

October 1, Monday

09:30 - 12:30 **Meeting of the Italy/China Bilateral Program**

Sala Lauree - Sapienza

14:30 - 15:00 **Li Song:** *Hybridizing nanocarbons with 2D layers*

15:00 - 15:30 **Antonio Bianconi:** *Unconventional topological superconductivity driven by Fano resonance at Lifshitz transitions in graphene superlattices*

15:30 - 16:00 **Andrea Perali:** *Enhanced Superconductivity and Superfluidity in Carbon Based Nanostructures: Theoretical Predictions and Experiments*

16:00 - 16:30 **Wen Liu:** *Nano Carbon based Materials design for Li-S batteries*

Coffee break

17:00 - 17:30 **Neda Ghofraniha:** *Soret reverse saturable absorption of graphene oxide and its application in random lasers*

17:30 - 18:00 **Luciana Di Gaspare:** *CVD growth of graphene on Ge(100)*

18:00 - 18:30 **Silvia Tofani:** *Towards an experimental validation at terahertz frequencies of Fabry-Perot Cavity leaky-wave antennas based on graphene*

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October 2, Tuesday

Aula Salvini - LNF

- 9:00 - 9:30 **Wen Liu:** *Superwetting Nanoarray Electrodes for Gas-involved Electrocatalysis*
- 9:30 - 10:00 **Pengpeng Shang:** *Thermoelectric performance of spark plasma-textured n-type polycrystalline SnSe*
- 10:00 - 10:30 **Yanwu Zhu:** *Graphite Oxide-Derived Graphene Materials: from Fundamental Research to Industry*
- 10:30 - 11:00 **Stefano Lupi:** *Terahertz and Infrared Plasmonic Absorption of 3-Dimensional Nano Porous Graphene*

Coffee break

- 11:30 - 12:00 **Shuangming Chen:** *The Atomic Intercalation and Synchrotron Radiation Characterization of Two-Dimensional Layered Nanomaterials*
- 12:00 - 12:30 **Francesco De Nicola:** *Sound and Light in 3D Graphene Aerogels*
- 12:30 - 13:00 **Xiaojun Wu:** *Theoretical Design of 2D Hybrid Structures for Energy Storage and Conversion*
- 13:00 - 13:30 **Stefano Bellucci:** *On the appearance of an energy gap and the electrical conductance of graphene, depending on the ordering of impurities*

Lunch

- 14:30 - 15:00 **Paola De Padova:** *Multilayer Silicene: a New 2D Material*
- 15:00 - 15:30 **Liangti Qu:** *Graphene Platforms for Energy Conversion and Storage*
- 15:30 - 16:00 **Andrea Liscio:** *Understanding the exfoliation processes of Graphene and Related Materials: from a single piece to a large-scale production*

Coffee break

- 16:30 - 17:00 **Zhipan Zhang:** *Graphene-based Systems for Catalysis*
- 17:00 - 17:30 **Milad Sani:** *Anderson localization of surface plasmons in monolayer graphene*
- 17:30 - 18:00 **Hengxing Ji:** *Carbon based current collectors for lithium metal anodes*

Laboratori Nazionali di Frascati

October 3, Wednesday

09:30 - 16:30 **Visit of the infrastructures of the Laboratori Nazionali di Frascati of the INFN**

Sapienza University

October 4, Thursday

09:30 - 12:30 **Visit of the laboratory of the Department of Physics of Sapienza university**

14:30 - 15:30 **Conclusion Meeting of the Italy/China Bilateral Program:**

3-Dimensional Graphene: Applications in Catalysis, Photoacoustics and Plasmonics