



10-11 JUNE 2019 **HIGHLIGHTS IN NANOSCIENCE**  
*NEST annual meeting*

**Aula Dini**  
**Palazzo del Castelletto**  
**Scuola Normale Superiore**  
**Via del Castelletto, 11**  
**Pisa**

**Organizers**  
Francesco Cardarelli  
SNS

**Co-organizers**  
Elia Strambini  
CNR-Nano  
Valerio Voliani  
CNI

**Info**  
Attività culturali  
050 509307  
eventiculturali@sns.it

Elaborazione a cura del Servizio Comunicazione e Relazioni Esterne | SNS

Internal speakers

RANIERI BIZZARRI  
ANDREA CAMPOSEO  
FRANCESCO CARDARELLI  
MARCO CECCHINI  
CAMILLA COLETTI  
GIANPIERO GARAU  
MAURO GEMMI  
FRANCESCO GIAZOTTO

STEFAN HEUN  
ALESSANDRO PITANTI  
CHIARA PUCCIARIELLO  
GIANMICHELE RATTO  
FRANCESCO ROSSELLA  
VALENTINA TOZZINI  
MIRIAM VITIELLO  
VALERIO VOLIANI

**NEST**

## JUNE, MONDAY 10<sup>th</sup>

- 9.15 Introduction  
LUIGI ROLANDI, FABIO BELTRAM, PASQUALANTONIO PINGUE
- 10.00 CAMILLA COLETTI  
*Synthesizing 2D materials for optoelectronics: approaches and prospects*
- 10.30 FRANCESCO ROSSELLA  
*Growth of III-V Semiconductor Nanowires and Transport Experiments in Nanowire-based Devices*

Coffee break

- 11.30 STEFAN HEUN  
*The importance of surfaces for the properties of 2D materials: From graphene to phosphorene and back to III-Vs*
- 12.00 FRANCESCO GIAZOTTO  
*Superconducting quantum electronics lab @NEST*
- 12.30 Lunch break
- 14.00 MAURO GEMMI  
*Electron Crystallography*
- 14.30 ANDREA CAMPOSEO  
*Additive technologies for hybrid light-emitting and photo-responsive nanowires and networks*
- 15.00 MIRIAM VITIELLO  
*Terahertz photonics and nanoelectronic*

Coffe break

### Poster session I

- 15.30 ALESSANDRO PITANTI  
*Nano-Mechanics at NEST: NIR and THz light control and strain engineering of 2D Materials*
- 16.00 VALENTINA TOZZINI  
*Theory & Computer Modeling @NEST*

## JUNE, TUESDAY 11<sup>th</sup>

- 9.30 FRANCESCO CARDARELLI  
*New paradigms in nanoscale biophysics: looking at life inside cells*
- 10.00 VALERIO VOLIANI  
*The ultrasmall-in-nano design*
- 10.30 GIANPIERO GARAU  
*Nano-BioStructures: Complex Design & Applications*

Coffee break

### Poster session II

- 11.30 GIANMICHELE RATTO  
*Exploring the brain in space and time*
- 12.00 RANIERI BIZZARRI  
*Intracellular nanoscale biophysics by design*
- 12.30 Lunch break
- 14.00 MARCO CECCHINI  
*Microfluidics and nanomaterials for biosensing and the nervous system*
- 14.30 CHIARA PUCCIARIELLO  
*PlantLab: physiological and molecular basis of plants' adaptation to dynamic environments*
- 15.00 ANTONINO CATTANEO  
*Synthetic Biology approaches to Neurosciences: an opportunity for Bio@SNS and Nest?*
- 15.30 - 17.30 Closing discussion