

MATERIALS SCIENCE SEMINARS
(SEMINARI DI SCIENZA DEI MATERIALI)

31/03/2026 Dr. Eugenio Zallo *Epitaxy of post-transition metal monochalcogenides towards optical applications and large-scale device manufacturing*

26/02/2026 Dr. Sara Cibella *CNR-IFN Superconducting Thermal Detectors: fabrication, stability and dynamic performances*

14/11/2025 Prof. A. Di Bernardo *University of Salerno, Department of Physics Promising frontiers in superconducting device physics: spin-polarized and gate-tunable architectures*

12/11/2025 Prof. Kevin Greenman *Catholic Institute of Technology in Castel Gandolfo, Italy Artificial Intelligence and Physics-Based Simulations for (Bio)Molecular and Materials Design*

11/09/2025 Prof. Atikur Rahman *Department of Physics, IISEE, Pune, India Tuning Optoelectronic properties of 2D Materials through Defect and Dielectric Engineering*

19/06/2025 Dr. Valerio C.A. Ficca and Giorgia Greco *ENEA - Casaccia Research Centre, Waste Biomass-Derived Hard Carbons for Sodium-ion Batteries: Towards a Greener and Renewable World*

12/12/2024 Dr. Stefano Leone *Leone Fraunhofer Institute for Applied Solid State Physics IAF, Freiburg (Germany) How Semiconductor Materials Are Shaping Advanced Electronics*

7/2/2024 Prof. Eli Sutter *Department of Mechanical & Materials Engineering, University of Nebraska-Lincoln Growth and Emerging Functionality of van der Waals Crystals and Heterostructures*

26/03/2024 Dr. Tommaso Giovannini, *Scuola Normale Superiore, Piazza dei Cavalieri, 7, 56126, Pisa, Italy. Modeling Complex Systems with Multiscale Atomistic Approaches*

13/2/2024 Prof. Stefano Checci *Van der Waals epitaxy and characterization of quasi two-dimensional Ge-Sb-Te materials and heterostructures*

19/1/2024 Dr. Francesco Martini *CNR-IFN Area di Tor Vergata Photonic integrated circuits and superconducting detectors for quantum technologies*

8/3/2024 Prof. Yanina Fasano Centro Atómico Bariloche and Instituto Balseiro, CNEA, CONICET and Universidad Nacional de Cuyo, Bariloche, Argentina ² Leibniz Institute for Solid State and Materials Research, Dresden, Germany. *How do atomic defects affect the electronic properties of superconductors?*

13/2/2024 Dr. Stefano Cecchi Department of Materials Science, University of Milano-Bicocca, via R. Cozzi 55, 20125 Milano, Italy ² Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V., Hausvogteiplatz 5-7, 10. *Van der Waals epitaxy and characterization of quasi two-dimensional Ge-Sb-Te materials and heterostructures*

19-1-2024 Dr. Francesco Martini CNR-IFN

Photonic integrated circuits and superconducting detectors for quantum technologies

26 October 2023 Prof. Jose Caridad University of Salamanca, Spain *“Probing the electronic structure of graphene-based nanostructures via terahertz Radiation”*

15 September 2023 Prof. Davide Bonifazi University of Vienna, Austria *“Bottom-up engineering of organic functional architectures”*

10 November 2022 Dr. Elisa Petroni STMicroelectronics srl, Italy *“Ge-rich GST based embedded PCM and related material challenges”*

02 November 2022 Dr. Alessandro Molle, Centro Nazionale delle Ricerche, Italy *“Nanoscale engineering of emerging two-dimensional materials”*

20 September 2022 Prof. Udo Schwingenschlogl KAUST, Saudi Arabia *“Predicting the gas sensing performance of 2D materials”*

14 July 2022 Dr. Sabrina Calvi Department of Physics, University Tor Vergata, Via della Ricerca Scientifica 1, 00133 Roma, Italy *Insights into flexible electronics, from organic devices to phase-change memories*

30 May 2022 Dr. Luca Persichetti University of Roma Tre, Italy *“Magnetic bits made of single atoms”*

27 October 2021 Prof. Keshav Dani Okinawa Institute of Science and Technology, Japan *“Imaging excitonic states with time- and angle-resolved photoemission spectroscopy in 2D semiconductor heterostructures”*

17 May 2021 Dr. Francisco Ivars Barcelò UNED, Spain *"Materials science in heterogeneous catalysis challenges"*

24 May 2021 Prof. Stefano Lupi, University of Rome La Sapienza *“Linear and non Linear Terahertz Photonics based on Topological Matter”*

15 April 2021 Prof. Marco Bernardi Caltech Institute of Technology, California, USA *“Electron dynamics in materials from first principles”*

18 March 2021 Prof. Jeffrey C. Grossman, Massachusetts Institute of Technology, USA “Materials Innovations for Energy and Water”

11 February 2021 Prof. Stephan Hoffman University of Cambridge, the United Kingdom “Integrated Crystal Growth of Advanced from model systems to integrated manufacturing”

20 January 2021 Prof. Jani Kotakoski University of Vienna, Austria “Atomic-scale manipulation of 2D materials”

14 December 2020 Prof. Nicola Marzari École Polytechnique Fédérale de Lausanne, Switzerland “The great acceleration in the design and discovery of novel materials”

6 November 2020 Maurizio Passacantando, Dipartimento di scienze fisiche e chimiche Univ. Aquila “*Chemical vapor deposition growth of carbon nanotubes: characterization and applications*”

16 November 2020 Prof. Liv Hornekær Aarhus University, Denmark “Engineering the electronic and chemical properties of graphene via functionalization and intercalation”

21 November 2019 Dr G. Salviati, IMEM-CNR, Parco Area delle Scienze 37/A, 43124 Parma, Italy “*Si(O)(C)- and ZnO-based nanosystems for nanomedicine applications*”