SSM

Scientific Colloquia

Scuola Superiore Meridionale

Academic Year 2022-2023

Cycle: Third cycle of highly interdisciplinary Scientific Colloquia

Seminar program

1

Quantum Complexity

Date and time: 10 November 2022 - 2:30 pm CET
Speaker(s): Alioscia Hamma
Affiliation / role: Professor at Department of Physics, University of Naples Federico II - Italy

2

Complex network systems: introduction and open challenges

Date and time: 17 November 2022 - 2:30 pm CET
Speaker(s): Pietro De Lellis
Affiliation / role: Professor at University of Naples Federico II - Italy

3

Spin-orbit optical phenomena and their applications

Date and time: 24 November 2022 - 2:30 pm CET
Speaker(s): Lorenzo Marrucci
Affiliation / role: Professor at Department of Physics, University of Naples Federico II - Italy

4

GINGER, Gyroscopes IN GEneral Relativity

Date and time: 01 December 2022 - 2:30 pm CET
Speaker(s): Angela D. V. di Virgilio
Affiliation / role: Senior researcher at INFN Sez. Pisa - Italy

5

Entangled relativity

Date and time: 15 December 2022 - 2:30 pm CET
Speaker(s): Olivier Minazzoli
Affiliation / role: Permanent researcher at Observatory of Côte d'Azur in Nice - France

6

Cascading risk assessment in the energy and chemical industry: a long-lasting issue in the new framework of climate change

Date and time: 12 January 2023 - 2:30 pm CET
Speaker(s): Valerio Cozzani
Affiliation / role: Professor of Chemical Engineering, University of Bologna - Italy

7

Bridging Physics to Biomedical Sciences

Date and time: 19 January 2023 - 2:30 pm CET
Speaker(s): Carlo Altucci
Affiliation / role: Full Professor of Applied Physics, University of Naples Federico II - Italy

8

Some free boundary problems in thermal insulation

Date and time: 26 January 2023 - 2:30 pm CET
Speaker(s): Carlo Nitsch
Affiliation / role: Full Professor in Mathematical Analysis, University of Naples Federico II - Italy

9

Effective behavior of random media

Date and time: 09 February 2023 - 2:30 pm CET
Speaker(s): Felix Otto
Affiliation / role: Director at the Max Planck Institute for Mathematics in the Sciences, Leipzig - Germany

10

Multi-robot control of heterogeneous herds

Date and time: 16 February 2023 - 2:30 pm CET
Speaker(s): Eduardo Montijano
Affiliation / role: Professor at Departamento de Informatica e Ingenieria de Sistemas, University of Zaragoza - Spain

11

Discrete De Giorgi Theory: Analysis and Applications

Date and time: 23 February 2023 - 2:30 pm CET
Speaker(s): Endre Suli
Affiliation / role: Professor of Numerical Analysis, University of Oxford - UK

12

Symbolic analysis: ordinal patterns in time series analysis

Date and time: 02 March 2023 - 2:30 pm CET
Speaker(s): Manuel Ruiz Marin
Affiliation / role: Full Professor at the department of Quantitative Methods, Law and Modern Languages in Technical University of Cartagena - Spain

13

Analysis and control of functional brain networks

Date and time: 09 March 2023 - 2:30 pm CET
Speaker(s): Fabio Pasqualetti
Affiliation / role: Professor at Department of Mechanical Engineering, University of California at Riverside - United States

14

Non-local Schrödinger operators: Some explicit results

Date and time: 16 March 2023 - 2:30 pm CET
Speaker(s): József Lőrinczi
Affiliation / role: Rényi Institute of Mathematics, Budapest - Hungary

15

Quantum gravity or shaking the foundations of physics and cosmology

Date and time: 23 March 2023 - 2:30 pm CET
Speaker(s): Daniele Oriti
Affiliation / role: Professor at Arnold Sommerfeld Center for Theoretical Physics, Munich - Germany

16

Phenomenology of Planck-scale physics

Date and time: 30 March 2023 - 2:30 pm CEST
Speaker(s): Giulia Gubitosi
Affiliation / role: Researcher at University of Naples “Federico II”, Naples - Italy

17

Some advances in isogeometric analysis of coupled and complex problems

Date and time: 13 April 2023 - 2:30 pm CEST
Speaker(s): Alessandro Reali
Affiliation / role: Professor at Department of Civil Engineering and Architecture of the University of Pavia

18

Atomistic and Mesoscopic Modeling of Structure-Property Relations in Polymers

Date and time: 20 April 2023 - 2:30 pm CEST
Speaker(s): Doros N. Theodorou
Affiliation / role: Professor at Department of Materials Science and Engineering School of Chemical Engineering at National Technical University of Athens

19

When quantum systems source gravity: how can we do physics without spacetime?

Date and time: 27 April 2023 - 2:30 pm CEST
Speaker(s): Flaminia Giacomini
Affiliation / role: Researcher at ETH Zurich, Zurich - Switzerland

20

Multilayer modeling of complex systems: theory and applications

Date and time: 04 May 2023 - 2:30 pm CEST
Speaker(s): Manlio De Domenico
Affiliation / role: Associate Professor of Applied Physics at Department of Physics and Astronomy, University of Padua - Italy

21

The Dynamics of Social Systems With Higher-order Interactions

Date and time: 11 May 2023 - 2:30 pm CEST
Speaker(s): Vito Latora
Affiliation / role: Professor of Applied Mathematics at Queen Mary University (UK) and Full Professor of Theoretical Physics at University of Catania (Italy)

22

The Hours of the Sun. Astronomy, Geometry, and Art in Ancient Sundials.

Date and time: 18 May 2023 - 2:30 pm CEST
Speaker(s): Alessandra Pagliano
Affiliation / role: Professor at University of Naples “Federico II”, Naples - Italy

23

Decision Making Under Model Uncertainty With Applications in Finance and Insurance

Date and time: 25 May 2023 - 2:30 pm CEST
Speaker(s): Athanasios Yannacopoulos
Affiliation / role: Professor of Applied Stochastic Analysis, Athens University of Economics and Business - Greece

24

Cosmic Explosions in the Violent Universe

Date and time: 08 June 2023 - 2:30 pm CEST
Speaker(s): Massimo Della Valle
Affiliation / role: Astronomical Observatory of Capodimonte, Naples - Italy

25

Modelling and Understanding Human Behaviour and Action Decisions for Predictive Human-machine Systems

Date and time: 15 June 2023 - 2:30 pm CEST
Speaker(s): Michael Richardson
Affiliation / role: Professor in the School of Psychological Sciences at Macquarie University, Sydney - Australia

26

Modeling Clustered Seismicity Risk: Are We Ready?

Date and time: 22 June 2023 - 2:30 pm CEST
Speaker(s): Paolo Bazzurro
Affiliation / role: Professor at University School for Superior Studies (IUSS), Pavia - Italy

27

Models of human motor coordination – a critical assessment and some open problems

Date and time: 29 June 2023 - 2:30 pm CEST
Speaker(s): John Hogan
Affiliation / role: Senior Research Fellow at the University of Bristol - UK