

# NANO COLLOQUIA

January - June  
2022

MODENA S3

PISA NEST

January 13

Pavel Rukin

Theoretical study of internal conversion  
between excited states of a  
functionalized porphyrin

January 20

Stefan Heun

High Mobility Free-Standing  
InSb Nanoflags  
for Quantum Technologies

February 3

Laura Zanetti Polzi

Segregation on the nanoscale coupled to  
liquid water polyamorphysm in  
supercooled aqueous ionic-liquid solution

February 17

Federico Belliardo

Non-asymptotic Heisenberg scaling:  
experimental metrology for a wide  
resources range

March 3

Enzo Rotunno

Convolutional neural network as a tool  
for automatic alignment of electron  
optical beam shaping device

March 17

Claudio Puglia

Gatable superconducting mesoscopic  
devices for Quantum and Classical  
applications

April 7

Andrea Secchi

Hole-spin qubits in silicon and  
germanium quantum dots: from theory  
to industry

April 21

Elisa Riccardi

Quantum cascade frequency combs as  
key technology for quantum sensing  
and metrology

Colloquia are scheduled at 11.00 in Pisa and at 15.00 in Modena  
Online meetings will be held using GoToMeeting. The link will be sent at due time.

[Info](#)

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May 5

Francesco Tavanti

Amorphous  $GexSe_{1-x}$  and its  
hierarchical ordered structures

May 19

Zacharias Fthenakis

Evaluation of ReaxFF potentials for the  
interactions between 3-fold coordinated  
carbon systems and molecules

June 9

Luca Bursi

First principles characterization of  
defect states in emerging materials for  
next-generation electronics

June 16

Federica Bianco

Light-matter interactions and the  
collective behavior of quantum 2D  
materials

TBA

Andrea Di Ciolo

Excitonic insulator in two-dimensional  
systems: linear optical response

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