International School on Quantum Science and Technology

The goal of the **Quantum-NEST** School (Quantum Network for Education and Scientific Training) is to provide an overview of the evolution of the field, and on its most exciting developments. It is primarily aimed at Master and Ph.D. students

Confirmed invited Lecturers :

J.-F. Roch, ENS Paris-Saclay, France
L. Sanchez-Palencia, E. Polytechnique, France
F. Sciarrino, U. Roma La Sapienza, Italy
J. Lopes dos Santos, U. Porto, Portugal
L. Goubin, UVSQ Versailles, France
S. Kazamias, U. Paris-Saclay, France
M. Palma, U. Palermo, Italy
F. Scazza, U. Trieste, Italy
R. Trotta, U. Roma La Sapienza, Italy

Topics will include:

Quantum sensors and open systems, quantum optics and communication, quantum many-body physics and materials, cold atoms, quantum and post-quantum cryptography.

Organizing committee:

Rosario Fazio, ICTP – Trieste, Italy
Marino Marsi, U. Paris-Saclay, France
Giuseppe Santoro, SISSA, Trieste, Italy

Contact:

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QUARMEN Erasmus Mundus Joint Master QUANTUM SCIENCE & TECHNOLOGY

With the support of the Erasmus+ Programme of the European Union

quantum PARIS-SACLAY

ICTP

TQT TRIESTE INSTITUTE FOR THE THEORY OF QUANTUM TECHNOLOGIES

ICTP, Trieste, Italy
May 9-12, 2023

Quantum-NEST

International School on Quantum Science and Technology program

	Tuesday May 9	Wednesday May 10	Thursday May 11	Friday May 12
09:00	R. Trotta *Artificial atoms for quantum communication*	M. Palma *Open quantum systems*	J.-F. Roch *Quantum sensors*	L. Goubin *Quantum cryptography*
10:00	L. Sanchez-Palencia *Quantum many body physics*	L. Sanchez-Palencia *Quantum many body physics*	L. Sanchez-Palencia *Quantum many body physics*	F. Sciarrino *Quantum advantage via photonic platforms*
11:00	*coffee break*			
11:20	M. Palma *Open quantum systems*	J. Lopes dos Santos *Quantum effects in bilayer graphene*	L. Goubin *Quantum cryptography*	J.-F. Roch *Quantum sensors*
12:20	*lunch*			
14:00	M. Palma *Open quantum systems*	F. Scazza *Ultracold atoms*	J.-F. Roch *Quantum sensors*	
15:00	S. Kazamias *Entangled HHG photons*	*visit SISSA, ICTP, AREA Science Park*	F. Scazza *Ultracold atoms*	
16:00	*coffee break*		*coffee break*	
16:20	F. Scazza *Ultracold atoms*		L. Goubin *Quantum cryptography*	

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