

Celebrating 60 Years of TÜBİTAK

School on Quantum Photonics: Principles and Applications

March 13 – 16 2023 Gebze, TÜRKİYE

Technologies based on the use of quantum principles continue to play a profound role in deeper understanding of the laws of nature, thus sparking a new wave of scientific and technological advances. The use of previously untapped quantum properties such as superposition and entanglement of individual quantum states provides novel technological resources for secure communication systems, computational paradigms, advanced sensing and metrology. The School will bring together graduate students and early career researchers engaged in the various aspects of quantum science and technology to offer an excellent series of lectures, with a broad scope of topics ranging from scientific fundamentals to the ongoing state of applications.

Lecturers



Vahid Karimipour
Sharif University of Technology



Angelo Bassi
University of Trieste

Topics Covered

- Quantum Mechanics and its Foundations
- Quantum Superposition
- Entanglement
- Quantum Nonlocality
- Quantum Measurements
- Quantum Cryptography
- Quantum Teleportation
- Quantum Computation

Organizers: Hasan Mandal (President of TÜBİTAK), Alikram Nuhbalaoğlu (TÜBİTAK TBAE)

Deadline for Applications: March 6, 2023

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