

18-19 December 2023

Department of Physics  
and Astronomy,  
University of Florence

Largo Enrico Fermi, 2 50125 Florence, Italy

AGENDA

FROM QUANTUM  
ASTRONOMY

TO QUANTUM  
COMMUNICATIONS

*An exclusive workshop organised on the occasion of the celebrations  
of the 90th anniversary of the birth of Italian physicist Fortunato Tito Arecchi.*

#### SCIENTIFIC COMMITTEE

**Cesare Barbieri**  
Professor Emeritus of Astronomy,  
University of Padova

**Massimo Inguscio**  
Professor Emeritus of Physics, Accademia Nazionale  
dei Lincei, Università Campus Biomedico, Roma

**Alessandro Zavatta**  
President & COO, QTI

#### ORGANISING COMMITTEE

**Davide Bacco**  
Associate Professor of Physics,  
University of Florence

**Francesco Saverio Cataliotti**  
Director, CNR-INO

**Paolo De Natale**  
Research Director, CNR-INO

**Tommaso Occhipinti**  
CEO, QTI

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**13.30-14.00 Welcome and registration****14.00-14.20 Institutional Greetings**

**Sofia Randich**, Director, INAF-Osservatorio Astrofisico di Arcetri, Colle di Galileo  
**Guido Risaliti**, Vice-Director, Department of Physics and Astronomy, UniFI  
**Francesco Saverio Cataliotti**, Director, CNR-INO  
**Tommaso Occhipinti**, CEO, QTI

**14.20-15.00 Opening Talk**

**Massimo Inguscio**, Professor Emeritus, Accademia Nazionale dei Lincei, Università Campus Biomedico, Roma

**Chair**

**Tommaso Occhipinti**, CEO, QTI

**15.00-15.45 Keynote**

**Cesare Barbieri**, Professor Emeritus, University of Padua

**Chair**

**Tommaso Occhipinti**, CEO, QTI

**15:45-16:15 Coffee Break****16.15-18.00 Session: Quantum Astronomy**

**Ivan Capraro**, Industrial Consultant  
**Luca Zampieri**, Senior Researcher, INAF  
**Christoph Marquardt**, Group Leader, Max Planck Institute for the Science of Light  
**Alessandro Marconi**, Professor, University of Florence  
**Fabrizio Tamburini**, Research Leader, Rotonium Quantum Research

**Chair**

**Paolo De Natale**, Research Director, CNR-INO

**18.00-18.30 Closing****19.00-21.00 Get Together: Dinner (on site)****08.30-09.00 Welcome and registration****09.00-10.00 Opening session**

**Alessandro Pansa**, TIM Board Member  
**Gianfranco Cariolaro**, Professor Emeritus, University of Padova

**10.00-11.00 Keynote**

**Anton Zeilinger**, Professor Emeritus, University of Vienna; Senior Scientist, IQOQI Vienna (Austrian Academy of Sciences)

**Chair**

**Francesco Saverio Cataliotti**, Director, CNR-INO

**11.00-11.30 Coffee break****11.30-13.35 Session: Quantum Communication Part I**

**André Xuereb**, Professor, University of Malta  
**Anna Gregorio**, Professor, University of Trieste  
**Johanna Sepulveda**, Chief Engineer Quantum-Secure Communications, Airbus  
**Angelo Bassi**, Professor, University of Trieste  
**Alberto Tosi**, Professor, Politecnico di Milano – DEIB  
**Martin Bohmann**, Business Development Proposals and Sales, QTI Labs

**Chair**

**Davide Bacco**, Professor, University of Florence

**13.35-14.35 Light Lunch****14.35-16.40 Session: Quantum Communication Part II**

**Eamonn Michael Murphy**, Laser and Optoelectronics Systems Engineer, ESA/ESTEC  
**Paolo Zoccarato**, European Commission Joint Research Centre  
**Antonio Manzalini**, Project Manager, TIM Group  
**Davide Calonico**, Research Director, INRIM  
**Caterina Vigliar**, Postdoc, Technical University of Denmark  
**Giampiero Pepe**, Professor, University of Naples Federico II

**Chair**

**Alessandro Zavatta**, President & COO, QTI

**16.40-17.10 Coffee Break****17.10-17.55 Round Table****"From Quantum Astronomy to Quantum Communications and Back"**

**Tommaso Occhipinti**, CEO, QTI  
**Giovanni Pareschi**, Research Director, INAF  
**Gabriele Elia**, Head of Technology Communication & Standardization, TIM  
**Alberto Tosi**, Professor, Politecnico di Milano – DEIB  
**Pasquale Monsellato**, Cte Battaglione Trasmissioni, Italian Army

**17.55-18.00 Wrap up and Closing**