SAPIENZA UNIVERSITÀ DI ROMA

DIPARTIMENTO DI FISICA
SAPIENZA UNIVERSITÀ DI ROMA

IQIS 2016

9th Italian Quantum Information Science Conference

Rome, 20-23 September 2016

Satellite event: Young IQIS2016 — 19 September 2016
Italian and European Policies on Quantum Information — 21 September 2016

Photo by Michele Andaloro

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IQIS 2016

9th Italian Quantum Information Science Conference

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Satellite event: Young IQIS2016
19 September 2016

Italian and European Policies on Quantum Information
21 September 2016

YOUNG IQIS - Monday 19 September

08.45 – 09.25	Registration
09.25 – 09.30	Welcome address
09.30 – 10.45	**Invited talk:** Networking for Nerds *Alaina G. Levine, Quantum Success Solutions (Arizona)*
10.45 – 11.15	*Coffee break*
11.15 – 12.45	**Contributed talks**
	An integrated optical memory based on laser written waveguides *Alessandro Seri, ICFO (Spain)*
	Photonic simulation of entanglement growth after a spin chain quench *Syed Adil Rab, University of Rome La Sapienza (Italy)*
	A quantum Fredkin gate *Joseph Ho, Griffith University (Australia)*
	Reversing quantum dynamics on an atom-chip *Cosimo Lovecchio,University of Florence; LENS (Italy)*
	Multi-user quantum key distribution with a semi-conductor source of entangled photon pairs *Adéline Orieux, LTCI, CNRS - Télécom ParisTech (France)*
	Entanglement transfer via a large-S magnetic channel *Davide Nuzzi, University of Florence; INFN (Italy)*
12.45 – 14.00	*Lunch break*
14.00 – 15.15	**Contributed talks**
	Quantum information processing in phase space: A modular variables approach *Andreas Ketterer, University Paris Diderot (France)*
	Practical quantum metrology in noisy environments *Rosanna Nichols, University of Nottingham (UK)*
	Source-device-independent Ultra-fast Quantum Random Number Generation *Davide Giacomo Marangon, University of Padova (Italy)*
	Quantum noise amplification in controllable lattices *Leonardo Banchi, University College London (UK)*
	A geometric approach to entanglement quantification with polynomial measures *Bartosz Regula, University of Nottingham (UK)*
15.15 – 15.45	*Coffee break*
15.45 – 17.00	**Invited talk:** Skill Bill *Antigone Marino, OSA Ambassador, CNR-ISASI (Italy)*
17.00 – 17.15	**Best contribution award**
17.15 – 18.30	Lab tour: Quantum Information Labs

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IQIS 2016 SCIENTIFIC PROGRAMME

Tuesday 20 September	
09.00 – 09.30	Registration
09.30 – 09.40	Welcome address
09.40 – 10.30	**Invited talks**
	Multipartite steering of Gaussian states: monogamy constraints and cryptographical applications *Gerardo Adesso, University of Nottingham (UK)*
	Entangled computer *Lorenzo Maccone, University of Pavia (Italy)*
10.30 – 11.00	*Coffee Break*
11.00 – 12.40	**Invited talks**
	Recent advancement in many-body quantum simulations *Simone Montangero, University of Ulm (Germany)*
	Quantum control of two-qubit gates via dynamical decoupling filtering of 1/f noise *Elisabetta Paladino, University of Catania (Italy)*
	Quantum non-Markovianity induced from Anderson localisation *Massimo Palma, University of Palermo (Italy)*
	Quantum Annealing: some old work and more recent thoughts *Giuseppe Santoro, SISSA (Italy)*
12.40 – 14.15	*Lunch Break*
14.15 – 15.45	**Contributed Talks. Topic: Quantum photonics**
	Time-resolved Scattering of a Single Photon by a Single Atom *Alessandro Cere, National University of Singapore (Singapore)*
	Efficient generation of photonic linear cluster states *Hagai Eisenberg, The Hebrew University of Jerusalem (Israel)*
	Hybrid quantum simulation of exciton transfer in silicon quantum photonics *Raffaele Santagati, University of Bristol (UK)*
	Generalized suppression laws for validation of Boson sampling experiments *Marco Bentivegna, University of Rome La Sapienza (Italy)*
	Purity of heralded photons: a comparison between backward and forward parametric down-conversion *Enrico Brambilla, University of Insubria (Italy)*
	Simulating quantum transport by photonics and genetic engineering *Filippo Caruso, LENS; QSTAR; University of Florence (Italy)*
15.45 – 17.45	***Coffee Break & Poster Session 1***

Wednesday 21 September	
09.00 – 09.45	**Invited Tutorial:** From the first loophole-free Bell test to a quantum Internet *Ronald Hanson, Delft University of Technology (The Netherlands)*
09.45 – 11.00	**Invited talks**
	Invited talk *Vittorio Giovannetti, Scuola Normale Superiore di Pisa (Italy)*
	Markovian and non-Markovian dynamics of quantum coherence *Fabrizio Illuminati, University of Salerno (Italy)*
	Quantum entanglement in curved spaces *Stefano Mancini, University of Camerino (Italy)*
11.00 – 11.30	*Coffee Break*
11.30 – 12.45	**Invited talks**
	Daemonic thermodynamics: how to extract work using quantum correlation *Mauro Paternostro, Queen's University Belfast (UK)*
	Quantum estimation: from foundations to quantum technology *Matteo Paris, University of Milan (Italy)*
	Time-invariant entanglement and sudden death of non-locality *Sabrina Maniscalco, University of Turku (Finland)*
12.45 – 14.15	*Lunch Break*
14.15 – 15.30	**Contributed Talks. Topic: Open systems and quantum coherence**
	Unravelling the environment: the discrimination of wave-function collapse models under time-continuous measurements *Marco G. Genoni, University of Milan (Italy)*
	Dynamical and thermodynamical control of open quantum Brownian motion *Francesco Petruccione, University of KwaZulu-Natal (Sudafrica)*
	Probing a dissipative process through quantum synchronization *Gian Luca Giorgi, IFISC, CSIC-UIB (Spain)*
	Coherent and Dissipative Control for Quasi-Zeno Dynamics *Matthias Mueller, LENS; QSTAR; University of Florence (Italy)*
	How dynamical relations explain quantum coherence *Holger F. Hofmann, Hiroshima University (Japan)*
15.30 – 16.15	**Invited Tutorial:** Quantum machine learning *Seth Lloyd, Massachusetts Institute of Technology (USA)*
16.15 – 16.45	*Coffee Break*
16.45 – 18.00	**Italian and European Policies on Quantum Information** Chairs: Tommaso Calarco, Universität Ulm (Germany) Francesco Cataliotti, LENS, Firenze (Italy)
19.30	**Social Dinner**

Thursday 22 September	
09.00 – 09.45	**Invited Tutorial:** Cold atomic gases and quantum simulation *Jean Dalibard, UQUAM - Collège de France (France)*
09.45 – 11.00	**Invited talks**
	Manipulating the shape of ultrashort single photons *Marco Bellini, INO-CNR & LENS (Italy)*
	Engineering new quantum systems with ultracold fermions in synthetic dimensions *Leonardo Fallani, LENS - University of Florence (Italy)*
	Homodyning in the OAM space: a route to vortex beams quantum state reconstruction *Alberto Porzio, CNR-SPIN (Italy)*
11.00 – 11.30	*Coffee Break*
11.30 – 12.45	**Invited talks**
	Photon-number-resolving detectors: an enabling technology for quantum information *Maria Bondani, IFN-CNR (Italy)*
	Quantum metrology & sensing with twin beams: from sub shot noise imaging to quantum holometer *Marco Genovese, INRIM (Italy)*
	Quantum simulation in femtosecond-laser-written photonic circuits *Roberto Osellame, IFN-CNR (Italy)*
12.45 – 14.15	*Lunch Break*
14.15 – 15.00	**Invited Tutorial:** Practical challenges in quantum cryptography *Eleni Diamanti, CNRS - Telecom Paristech (France)*
15.00 – 16.30	**Contributed Talks. Topic: Multipartite and distributed entanglement**
	Building versatile bipartite probes for quantum metrology *Alessandro Farace, Max-Planck-Institute of Quantum Optics (Germany)*
	Generation and control of entanglement and steering in cavity optomechanics *David Vitali, University of Camerino (Italy)*
	Entropic nonsignalling correlations *Costantino Budroni, University of Siegen (Germany)*
	Optomechanical tailoring of squeezed light *Simona Mosca, INO–CNR (Italy)*
	Large-N-approximated field theory for multipartite entanglement *Giuseppe Florio, Politecnico di Bari; INFN (Italy)*
	Metrology for Quantum Cryptography and the Italian Quantum Backbone *Ivo Pietro Degiovanni, I.N.RI.M. (Italy)*
16.30 – 18.30	***Coffee Break & Poster Session 2***

Friday 23 September	
09.00 – 09.45	**Invited Tutorial:** Single photon on demand *Pascale Senellart, CNRS-LPN (France)*
09.45 – 10.35	**Invited talks**
	Quantum boundary conditions *Paolo Facchi, INFN-CNR (Italy)*
	Witnessing entanglement with the Fisher information: from metrology to Bell non locality *Augusto Smerzi, INO-CNR & LENS (Italy)*
10.35 – 11.00	*Coffee Break*
11.00 – 11.50	**Invited talks**
	The ultimate rates of quantum communications *Stefano Pirandola, York Centre for Quantum Technologies (UK)*
	Quantum Interference with an Orbiting Correspondent *Paolo Villoresi, University of Padova (Italy)*
11.50-12.35	**Invited Tutorial:** Quantum Computing *Matthias Troyer, ETH Zurich (Switzerland)*
12.35 – 14.00	*Lunch Break*
14.00 – 15.45	**Contributed Talks. Topic: Advanced topics**
	Microscopic description for the emergence of collective decoherence in extended systems *Fernando Galve, IFISC, CSIC-UIB (Spain)*
	Atom-field dressed states in slow-light waveguide QED *Francesco Ciccarello, University of Palermo (Italy)*
	Why quantum computing will be the next turn in information retrieval: a semiotic overview on language and probability *Francesco Galofaro, Politecnico di Milano (Italy)*
	Entanglement detection for discrete, continuous and hybrid variables *Manuel Gessner, QSTAR, INO & LENS (Italy)*
	Quantum steering inequality with tolerance for measurement-setting-errors: experimentally feasible signature of unbounded violation *Magdalena Stobinska, University of Gdansk (Poland)*
	Robustness of asymmetry and coherence of quantum states *Thomas Bromley, University of Nottingham (UK)*
	Entanglement and coherence in quantum state merging *Alexander Streltsov, University of Berlin (Germany)*
15.45 – 16.15	*Coffee Break*
16.15 – 16.30	**Young Awards**

Poster session 1 – Tuesday 20 September

P_01 Nonlinearity as a resource for quantum technologies
***Francesco Albarelli**, University of Milan (Italy)*

P_02 Entanglement transfer in a quadripartite system
***Alessia Allevi**, University of Insubria (Italy)*

P_03 Quantum Security in Large-Scale QRNA-Based Distributed Systems
***Michele Amoretti**, University of Parma (Italy)*

P_04 Dissipation effects in quantum annealing
***Luca Arceci**, SISSA - International School for Advanced Studies (Italy)*

P_05 Photons in flat bands
***Matteo Biondi**, ETH Zurich (Switzerland)*

P_06 Group theory and Bell inequalities
***Katarzyna Bolonek-Lason**, University of Lodz (Poland)*

P_07 Quantum theory of squeezing in shock waves
***Maria Chiara Braidotti**, University of L'Aquila (Italy)*

P_08 Accessible quantification of multiparticle entanglement
***Thomas Bromley**, University of Nottingham (UK)*

P_09 Measuring total correlations via the Operator Schmidt Decomposition
***Matteo Caiaffa**, University of Strathclyde (UK)*

P_10 Paying the Price - The cost of achieving finite time adiabatic dynamics
***Steve Campbell**, Queen's University Belfast (UK)*

P_11 Hybrid and multipartite entanglement in vector vortex beams
***Gonzalo Carvacho**, University of Rome La Sapienza (Italy)*

P_12 Study of optoelectronic properties of a shallow donor confined in inhomogenous quantum dot “IQD”
***Younes Chrafih**, University of Sultan Moulay Slimane (Morroco)*

P_13 Optical Demonstration of a Bit-Flip Correction for Enhanced Sensitivity Measurements
***Lior Cohen**, The Hebrew University of Jerusalem (Israel)*

P_14 General Boundary Formulation of Quantum Theory
***Daniele Colosi**, Universidad Nacional Autónoma de México (Mexico)*

P_15 Momentum Resolved Spectroscopy Using Atomic Quantum Probes
***Francesco Cosco**, University of Turku (Finland)*

P_16 Broadband Single-Photon Pulses in Hot Atomic Vapors
***Luca Salvatore Costanzo**, INO-CNR; LENS (Italy)*

P_17 Continuous Variable Qubit Generation with a Quantum State Orthogonalizer
***Luca Salvatore Costanzo**, INO-CNR; LENS (Italy)*

P_18 Observing Multi-Photon Interference and Suppression Laws in 3D Photonic Chips
***Andrea Crespi**, Politecnico di Milano (Italy)*

P_19 How to Amend Entanglement Breaking Channels
***Álvaro Cuevas**, University of Rome La Sapienza (Italy)*

P_20 Towards optical phase measurement at the Heisenberg limit
***Shakib Daryanoosh**, Griffith University (Australia)*

P_21 Exploring topological phases in a quantum walk exploiting Orbital Angular Momentum of light
***Alessio D'Errico**, University of Naples Federico II (Italy)*

P_22 Spontaneous emission in quantum nonlinear Schrödinger solitons
***Leone Di Mauro Villari**, Institute for Complex Systems (ISC-CNR) (Italy)*

P_23 Quantum tomography and interference with Surface Plasmon Polaritons
***Frederik Dieleman**, Imperial College London (UK)*

P_24 Towards the simulation of a supersolid state with Rydberg dressing
***Riccardo Faoro**, Durham University (UK)*

P_25 Quantum Communication Between Remote Mechanical Resonators
***Simone Felicetti**, Université Paris Diderot (France)*

P_27 A direct approach to Measurement Based Quantum Computing in Continuous Variable
***Giulia Ferrini**, Johannes Gutenberg Universität (Germany)*

P_28 Entanglement routing in an ion-cavity system: a first step for quantum networks
***Dario Alessandro Fioretto**, University of Innsbruck (Austria)*

P_29 Reconfigurable laser written interferometer for photonic applications at telecom wavelength
***Fulvio Flamini**, University of Rome La Sapienza (Italy)*

P_30 Signatures of entanglement with a quantum system in the dynamics of a macroscopic magnetic environment
***Caterina Foti**, University of Florence; INFN (Italy)*

P_31 Coherent averaging
***Julien Mathieu Elias Fraisse**, Eberhard-Karls-Universität Tübingen (Germany)*

P_32 Multipartite entanglement in first-order and second-order quantum phase transitions of the Lipkin-Meshkov-Glick model
***Marco Gabbrielli**, University of Florence (Italy)*

P_33 Gaussian systems for quantum enhanced multiple phase estimation
***Christos Gagatsos**, University of Warwick (UK)*

P_34 Quantum Darwinism and memory effects in bosonic and spin environments
***Fernando Galve**, IFISC (CSIC-UIB) (Spain)*

P_35 Stochastic quantum measurements, Zeno and ergodicity
***Stefano Gherardini**, LENS and QSTAR; University of Florence (Italy)*

P_36 Waveguide coupling of single photons from a solid state emitter
***Samuele Grandi**, Imperial College London (UK)*

P_37 Action as an expression of deterministic laws of motion in quantum mechanics
***Keito Hibino**, Hiroshima University (Japan)*

P_38 Entanglement-assisted quantum metrology
***Zixin Huang**, University of Sydney (Australia)*

P_39 Efficient validation of scattershot boson sampling experiments
***Luca Innocenti**, Queen's University Belfast (UK)*

P_40 Covariance matrix inequalities and their implications in continuous variable quantum information: recoverability, steering, and beyond
***Ludovico Lami**, Universitat Autònoma de Barcelona (Spain)*

P_41 Preparation of Macroscopic Quantum States
***Ludovico Latmiral**, Imperial College London (UK)*

P_42 General bounds for sender-receiver capacities in multipoint quantum communications
***Riccardo Laurenza**, University of York (UK)*

P_43 Peres-Mermin square with arbitrary unitary operators
***Adrien Laversanne-Finot**, Université Paris Diderot (France)*

P_44 Ancillary Qubit Spectroscopy of Vacua in Cavity and Circuit Quantum Electrodynamics
***Jared Lolli**, Université Paris Diderot (France)*

P_45 Exploring topological phases in 2D with discrete time quantum walk
***Maria Maffei**, University of Naples Federico II (Italy)*

Poster session 2 – Thursday 22 September

P_46 A quantum algorithm for solving the heat equation with Neumann boundary conditions
***Anuradha Mahasinghe**, University of Colombo (Sri Lanka)*

P_47 Time Asymmetric Quantum Mechanics in Nonlocal Nonlinear Optics
***Giulia Marcucci**, Institute for Complex Systems (ISC-CNR) (Italy)*

P_48 Modeling Leggett-Garg inequality violation
***Saulo Moreira**, Université Paris Diderot (France)*

P_49 Simulating dissipative many-body systems with cold Rydberg atoms
***Oliver Morsch**, INO-CNR (Italy)*

P_50 A Bayesian view of Single-Qubit Clocks, and an Energy versus Accuracy tradeoff
***Bhaskaran Muralidharan**, Indian Institute of Technology (India)*

P_51 Detecting a many-body mobility edge with quantum quenches
***Piero Naldesi**, University of Bologna ()*

P_52 Quantum walks in synthetic gauge fields with 3D integrated photonics
***Leonardo Novo**, University of Lisbon (Portugal)*

P_53 Full quantum state reconstruction of symmetric two-mode squeezed thermal states via spectral homodyne detection and a state-balancing detector
***Stefano Olivares**, University of Milan (Italy)*

P_54 Estimation of coherent errors from stabilizer measurements
***Davide Orsucci**, University of Innsbruck (Austria)*

P_55 Experimental implementation of Bayesian phase estimation algorithms on a silicon quantum photonic chip
***Stefano Paesani**, University of Bristol (UK)*

P_56 Graphene based nano-sensors
***Sofia Pazzagli**, University of Florence (Italy)*

P_57 Correlation Plenoptic Imaging
***Francesco Pepe**, Centro Fermi and INFN Sezione di Bari (Italy)*

P_58 Majorana Zero Mode, Local Quench and Disturbance Propagation in the Ising chain
***Francesco Plastina**, UNICAL, INFN-Gruppo collegato di Cosenza (Italy)*

P_59 Quantum estimation of the diamagnetic term in light-matter interaction
***Matteo Rossi**, University of Milan (Italy)*

P_60 Synchronization of two ensembles of atoms via quantum and classical channels
***Alexander Roth**, Leibniz Universität Hannover (Germany)*

P_61 Sub-shot-noise (shot-noise enhanced) microscope.
Nigam Samantaray, *INRiM & Politecnico di Torino (Italy)*

P_62 Pattern classification on the quantum Bloch sphere
Enrica Santucci, *University of Cagliari (Italy)*

P_63 Experimental realization of equiangular three-state quantum key distribution
Matteo Schiavon, *University of Padova (Italy)*

P_64 Quantum Galileo's experiments and mass estimation in a gravitational field
Luigi Seveso, *University of Milan (Italy)*

P_65 Quantifying Identical Particle Entanglement
Enrico Sindici, *University of Strathclyde (UK)*

P_66 Quantum state transfer via Bloch oscillations
Dario Tamascelli, *University of Milan (Italy)*

P_67 Atomic thermal motion effect on efficiency of a high-speed quantum memory
Kirill Tikhonov, *Saint-Petersburg State University (Russia)*

P_68 Compressive sensing for hyperentangled state in polarization and time bin
Marco Tomasin, *University of Padova (Italy)*

P_70 Optimized protocols for discrimination of collective decoherence for classical environments
Jacopo Trapani, *University of Milan (Italy)*

P_71 Connecting electronic - vibrational entanglement, quantum coherence and asymmetry in a molecular system
Mihaela Vatasescu, *Institute of Space Sciences - INFLPR (Romania)*

P_72 Observing single-photon interference along satellite-ground channels
Francesco Vedovato, *University of Padova (Italy)*

P_73 Entanglement-swapping assisted EPR steering over high-loss quantum channel with no detection loophole
Morgan Weston, *Griffith University (Australia)*

P_74 Thermodynamics of trajectories of harmonic oscillators
André Xuereb, *University of Malta (Malta)*

P_75 Quantum Estimation via Sequential Measurements
Kazuya Yuasa, *Waseda University (Japan)*

P_76 Quantum annealing speedup over simulated annealing on random Ising chains
Tommaso Zanca, *SISSA - International School for Advanced Studies (Italy)*

P_77 The large dimensional limit of multipartite entanglement
Sara Di Martino, *Universitat Autonoma de Barcelona (Spain)*

P_78 Entanglement and extreme spin squeezing of unpolarized states
Giuseppe Vitagliano, *University of the Basque Country (Spain)*

P_79 An integrated optical memory based on laser written waveguides
***Alessandro Seri**, ICFO (Spain)*

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P_89 A geometric approach to entanglement quantification with polynomial measures
***Bartosz Regula**, University of Nottingham (UK)*

Information

Information for Presenters of Contributed Talks

Please keep your talk within 12 minutes, leaving 3 minutes for questions and discussion.

Poster session

Two poster sessions will be held adjacent to the Amaldi room (1st floor).
Session 1 on Tuesday 20 at 15.45 and **Session 2 on Thursday 22 at 16.30.**
Check your poster number and the corresponding session.
Presenters are invited to stand by their poster(s) during the poster session.
Set up and removal times: Posters must be hung on the same day of the session before 14.00 and removed at the end of the session (the panels will be removed at the end of each session).

Best Presentation and Poster Awards

The ceremony "Best Talk & Poster Awards" will take place on Friday 23 September at 16.15.
The best presentation will receive the Best Presentation Award (€ 500) and the best poster the Best Poster Award (€ 250).
Awards are funded by IDQuantique.

Abstract book

The abstracts of the conference are available online at:
http://www.picque.eu/abstract-book/

Venue

Marconi Building (1st floor)
University of Rome La Sapienza
Physics Department,
Piazzale Aldo Moro 5
00185 Rome, Italy

Main Conference Room: Amaldi Room
YOUNG IQIS Conference Room: Conversi Room

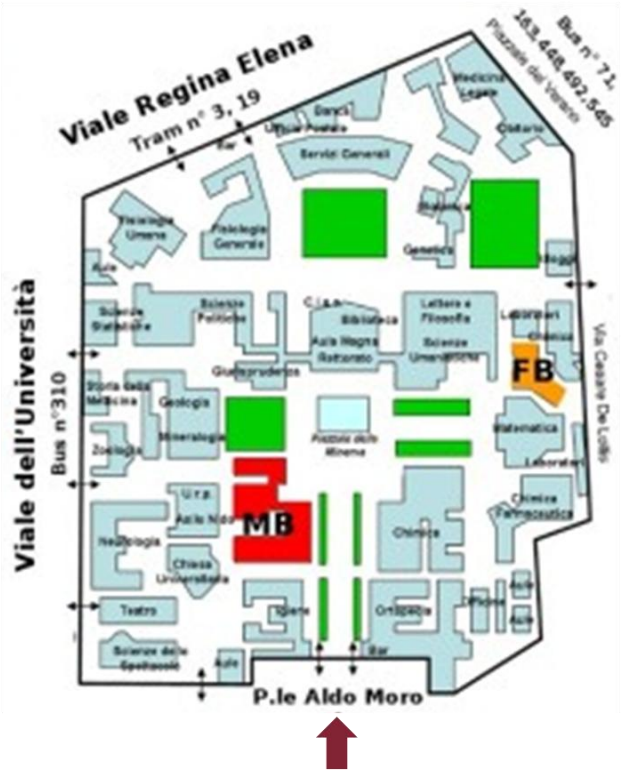
La Sapienza University Campus

FB Department of Physics Fermi Building

MB Department of Physics Marconi Building

↑ Main entrance

↔ Other entrances



Wi-Fi

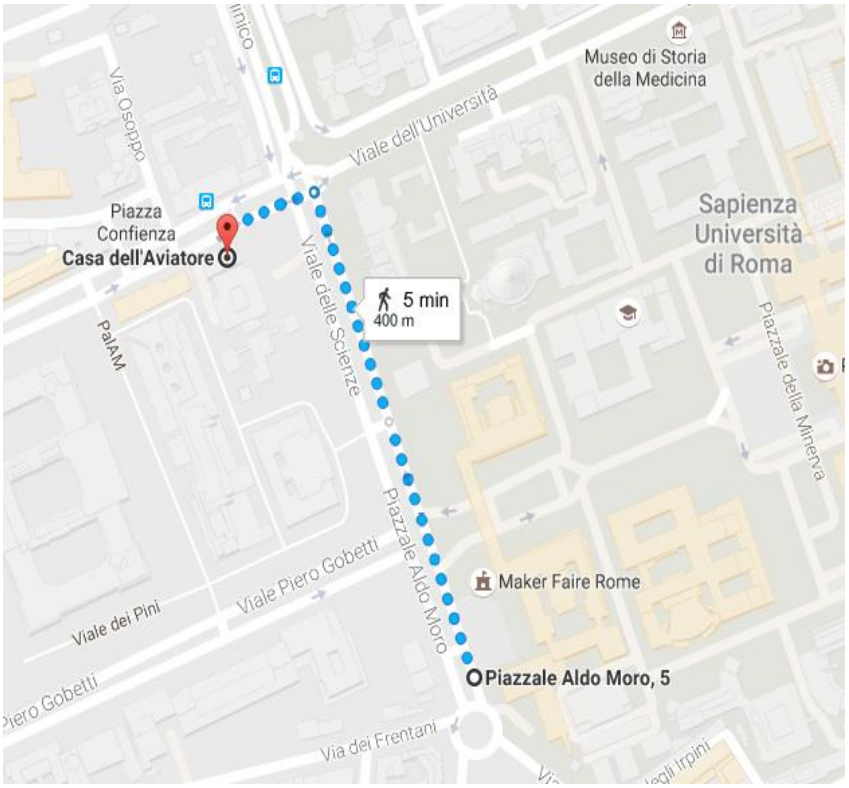
Access to free Wi-Fi Internet connection at the conference venue is available only for participants who completed the Wi-Fi registration before the conference.
To login use the username and password you received by email after registration.
Should you have difficulties in connecting to the Wi-Fi onsite, please try changing the browser and/or lowering your computer's security settings.

Social dinner

The social dinner will take place on **Wednesday 21 September** at 19:30 at **Casa dell'Aviatore** (Viale dell'Università, 20 – 00185 Roma). The social dinner is included in the registration fee. Please bring your conference badge.

Dress code: formal (jacket and tie mandatory; no shorts)

Casa dell'Aviatore is in walking distance from the meeting venue.



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3D-QUEST (3D – Quantum Integrated Optical Simulation) Project

PRIN Project AQUASIM (Advanced Quantum Simulation and Metrology)

QUCHIP Project (Quantum Simulation on a Photonic Chip)

PICQUE Project (Photonic Integrated Compound Quantum Encoding)

QCUMbER Project (Quantum Controlled Ultrafast Multimode Entanglement and Measurement)