

Session Program

30 September 2025 to 3 October 2025

QuICS - Quantum: Information, Complexity, Simulation

Invited Speakers

Bari (Italy) - Palazzo dell'Acqua, Conference Room
Palazzo dell'Acqua, Via Salvatore Cognetti, 36 70121 Bari (BA), Italy Room: Sala Conferenze

Tuesday 30 September

11:30

Invited Speakers

Session |**Location:** Bari (Italy) - Palazzo dell'Acqua, Conference Room, Palazzo dell'Acqua, Via Salvatore Cognetti, 36 70121
Bari (BA), Italy Room: Sala Conferenze

11:30-12:00

Quantum-noise-limited and quantum enhanced optical magnetometry

Speaker

Gianvito Lucivero

12:00-12:30

Measurement incompatibility in Bayesian multiparameter quantum estimation

Speaker

Francesco Albarelli

12:30

15:40

Invited Speakers

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Bari (BA), Italy Room: Sala Conferenze

15:40-16:10

Quantum networks with Neutral Atoms in Optical Cavities

Speaker

Emanuele Distante

16:10-16:40

Maxwell's demon for open quantum systems

Speaker

Giacomo Guarnieri

16:40

Wednesday 1 October

11:30

Invited Speakers

Session |

Location: Bari (Italy) - Palazzo dell'Acqua, Conference Room, Palazzo dell'Acqua, Via Salvatore Cognetti, 36 70121 Bari (BA), Italy Room: Sala Conferenze

11:30-12:00

Spectral characterisation of biphoton states

Speaker

Ilaria Gianani

12:00-12:30

Continuous-variable QKD in modular star-network setup: advantage, limits and potential use with constrained devices

Speaker

Carlo Ottaviani

12:30

15:40

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15:40-16:10

Static and dynamic topological phase transitions in open quantum systems

Speaker

Carmine Antonio Perroni

16:10-16:40

Multimode-cavity picture of non-Markovian waveguide QED

Speaker

Dario Cilluffo

16:40

Thursday 2 October

11:30

Invited Speakers

Session |**Location:** Bari (Italy) - Palazzo dell'Acqua, Conference Room, Palazzo dell'Acqua, Via Salvatore Cognetti, 36 70121 Bari (BA), Italy Room: Sala Conferenze

11:30-12:00

Polariton quantum simulators: condensation and emerging supersolidity

Speaker

Dario Gerace

12:00-12:30

Quantum (inspired) algorithms for combinatorial optimization and equational reasoning

Speaker

Ilaria Siloi

12:30

15:40

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15:40-16:10

Perfect state transfer between qubits by dispersion engineering in waveguide QED

Speaker

Carlos Gonzalez-Ballester

16:10

Friday 3 October

11:30

Invited Speakers

Session |

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12:00

11:30-12:00

A photon-atom interface at telecom wavelengths**Speaker**

Natalia Bruno