

Monday, June 22

 8.00-10.00 Registration (Corridor)

 10.00-10.30 Conference opening

J. Peřina

Y. S. Kim

M. Dorazilová (violoncello)

 10.45-11.30 G. Rempe (invited)

Quantum optics with ultracold molecules

 11.30-12.00 N. Gisin (invited)

Space, time and quantum nonlocality

 12.00-12.30 R. W. Boyd (invited)

Controlling the speed of light for applications in quantum information science

 12.30-14.00 Lunch (*Atrium*)

 14.00-14.30 L. Lugiato (invited)

Some topics in quantum imaging

 14.30-15.00 M. C. Teich (invited)

Multi-photon and entangled-photon imaging and lithography

 15.00-15.30 A. Gatti (invited)

X-entanglement: the non-factorable spatio-temporal structure of biphoton correlation

 15.30-16.00 Coffee break

 16.00-16.30 J. Eisert (invited)

Heralded preparation and distillation of entangled light

 16.30-16.50 L. Mazzola

Exact dynamics of entanglement and entropy in structured environments

 16.50-17.10 M. J. Everitt

Persistent entanglement of two coupled SQUID rings in the quantum to classical transition

 17.10-17.30 D. Cavalcanti

Open-system dynamics of graph-state entanglement

 17.30-17.50 M. Martinelli

Extra phase noise from phonon scattering degrades quantum correlations in nonlinear systems

 19.00-22.00 Welcome Reception (*Atrium*)

Lidová muzika FRGÁL (traditionals)

 12.30-14.00 Lunch (*Atrium*)

 14.00-14.30 V. Scarani (invited)

Quanta in a black-box

 14.30-15.00 A. Acin (invited)

Quantum correlations and device-independent quantum information protocols

 15.00-15.30 Y. S. Kim (invited)

Feynman and squeezed states

 15.30-16.00 Coffee break

 16.00-16.20 N. Brunner

Emergence of quantum correlations from non-locality swapping

 16.20-16.40 D. Sych

Quantum uniqueness

 16.40-17.00 L. Skála

Heisenberg uncertainty relations can be replaced by stronger ones

 17.00-17.20 P. Blasiak

Combinatorics of creation-annihilation

 17.20-17.40 V. I. Man'ko

Experimental possibilities in view of the probability representation of quantum mechanics and quantum optics

M.C.Teich

A. Andreoni

A. Retzker

N. J. Cerf

M. Ziman

Tuesday, June 23

L. Lugiato	9.00-9.30 M. Hendrych (invited) Shaping the spectrum of entangled photons	9.00-9.20 P. Nussenzveig Experimental three-color continuous-variable entanglement	A. Vourdas
	9.30-10.00 A. Andreoni (invited) Photon statistics in the macroscopic realm: methods to beat the lack of photon-counters	9.20-9.40 T. Kiesel Application of nonclassicality criteria to experiments	
	10.00-10.30 H. Coldenstrodt-Ronge (invited) The photon and the vacuum cleaner	9.40-10.00 A. A. Semenov Propagation of quantum light through the turbulent atmosphere	
	10.30-11.00 Coffee break	10.00-10.20 Y. L. Chuang Conditions to preserve quantum entanglement of quadrature fluctuation fields in electromagnetically induced transparency media	
K. Banaszek	11.00-11.20 F. Sciarrino Quantum manipulation of orbital angular momentum photonic states by coherent coupling with polarization	10.30-11.00 Coffee break	V. Scarani
	11.20-11.40 T. B. Pittman Experimental work on entangled photon holes	11.00-11.30 R. Renner (invited) Postselection as a tool in quantum information	
	11.40-12.00 M. Ostermeyer Quantum interference of a biphoton at a blazed grating	11.30-12.00 M. Ziman (invited) Process POVM: A mathematical framework for description of quantum process experiments	
	12.00-12.20 G. Vallone Multi-path entanglement of two photons	12.00-12.30 M. Wolf (invited) Measurements incompatible in Quantum Theory cannot be measured jointly in any other local theory	
H. Matsueda	12.20-12.40 R. Migliore Non-classical correlations of two interacting qubits coupled to independent reservoirs	12.30-14.00 Lunch (<i>Atrium</i>)	J. Fiurášek
	12.40-14.00 Lunch (<i>Atrium</i>)	14.00-14.20 D. Elser Continuous-variable quantum key distribution in fibers and free space	
	14.00-14.30 E. Polzik (invited) Quantum memory for light	14.20-14.40 A. Leverrier Unconditionally secure protocol for long-distance continuous-variable QKD with discrete modulation	
	14.30-14.50 T. Juffmann Wave-particle duality of large molecules revealed	14.40-15.00 N. J. Cerf Continuous-variable quantum error correction: possibilities and impossibilities	
N. Gisin	14.50-15.10 A. Wojciechowski Nonlinear Faraday effect with cold atoms	15.00-15.20 S. Kak The transactional nature of quantum information	R. W. Boyd
	15.10-15.30 A. Cere Narrowband filter for quantum light	15.30-16.00 Coffee break	
	15.30-16.00 Coffee break	16.00-16.20 H. Matsueda Dynamic entanglement and separability criteria for quantum computing bit states	
	16.00-16.20 M. Koschorreck Ultra-sensitive spin-measurements below the standard quantum limit	16.20-16.40 G. Gilbert Volume thresholds for fault tolerance	
N. Gisin	16.20-16.40 I. Kominis Spin-squeezed atomic vapors: Is there any gain or not?	16.40-17.00 D. Sych Practical coherent state quantum key distribution with multi-letter alphabets	R. W. Boyd
	16.40-17.00 G. Toth Generation of macroscopic singlet states in atomic ensembles	17.00-17.20 N.C. Menicucci One-way quantum computation in the optical frequency comb	
	17.00-17.20 S. Machnes Super-fast cooling of trapped particles	17.20-17.40 J. Minář Solid-state quantum memory for photons at telecommunication wavelength	
	17.20-17.40 C. J. Villas-Bôas Nonadiabatic coherent evolution of two-level systems under spontaneous decay		
	18.00-20.30 Poster session (<i>Corridor</i>) (local wines)		
	20.30-21.30 Piano recital (<i>Convict Chapel</i>), M. Keprt		

Wednesday, June 24

A. Gatti	9.00-9.30 M. Genovese (invited) PDC correlations for quantum imaging	9.00-9.30 A. Vourdas Quantum systems with finite Hilbert space	A. Khrennikov
	9.30-10.00 A. Politi (invited) Quantum information science with photons on a chip	9.30-9.50 P. Aniello Quantum mechanics on phase space and star products: a group-theoretical approach	
	10.00-10.30 K. Banaszek (invited) Characterization of non-classical light sources for quantum information technologies	9.50-10.10 M. A. Man'ko Quantum inequalities for tomographic entropies of qudit states	
	10.30-11.00 Coffee break	10.10-10.30 S. Chaturvedi Wigner distributions for finite even dimensional systems without doubling	
T. B. Pittman	11.00-11.20 Ch. Marquardt Experimental entanglement distillation of mesoscopic quantum states	10.30-11.00 Coffee break	E. Polzik
	11.20-11.40 M. Ostermeyer Quantum interference of a biphoton at a blazed grating	11.00-11.30 G. Leuchs (invited) The geometrical properties of entangled states	
	11.40-12.00 A. S. Chirkin Four-partite CV entangled states in aperiodical nonlinear photonic crystal	11.30-11.50 M. Bellini Experimental proof of commutation rules by superpositions of quantum operators	
	12.00-12.20 I. Rigas Full quantum tomography of twisted photons	11.50-12.10 T. C. Ralph Noiseless linear amplification	
	12.20-12.40 S. S. Mizrahi Separability and entanglement: what symmetries and geometry can say	12.10-12.30 A. Aiello Geometric spin Hall effect of light	
	12.40-14.00 Lunch (<i>Atrium</i>)	12.30-14.00 Lunch (<i>Atrium</i>)	
	14.00-17.00 Excursion Archbishop's palace Olomouc historical center Archdiocesan Museum		
	18.00-19.00 Organ concert St. Moritz cathedral V. Michálek		
	19.00-22.00 Banquet (<i>Atrium</i>) Music: L.I.F. (popular songs)		

Thursday, June 25

9.00-9.30 W. Vogel (invited)

Continuous-variable entanglement

9.30-10.00 B. Hage (invited)

Preparation of distilled and purified continuous-variable entangled states

10.00-10.30 N. J. Cerf (invited)

Unraveling the convex set of non-Gaussian mixed quantum states that are characterized by a classical probability distribution in phase space

10.30-11.00 Coffee break

11.00-11.20 H. Takahashi

Distillation of continuous variable entanglement from Gaussian states

11.20-11.40 M. Lassen

Continuous variables quantum erasure-correcting code

11.40-12.00 R. Wagner

Universal continuous variable quantum computation in the micromaser

12.00-12.20 A. Ferraro

Tests of multimode quantum non-locality with homodyne measurements

12.30-14.00 Lunch (*Atrium*)

14.00-14.30 A. Retzker (invited)

Robust and optimal laser cooling of trapped ions.

14.30-14.50 M. Stobinska

Single-photon single-ion interaction in free space configuration in front of a parabolic mirror

14.50-15.10 J. A. Crosse

Quantum electrodynamics in absorbing nonlinear media

15.10-15.30 A. V. Glushkov

Atomic and nuclear optics with manifestation of stochastic behaviour and photon-correlation effects

15.30-16.00 Coffee break

16.00-16.20 A. Sambrowski

Towards Einstein-Podolsky-Rosen quantum channel multiplexing

16.20-16.40 P. Marian

Consistent entanglement measures for two-mode Gaussian states

16.40-17.00 A. Porzio

Characterization of bipartite states: From theory to experiment

17.00-19.30 Poster session (*Corridor*)
(local wines)

9.00-9.20 A. Dragan

Emergence of quantum indeterminacy from special relativity

9.20-9.40 G. H. E. Duchamp

Deformation of Hopf algebras and pseudo-Feynman diagrams

9.40-10.00 A. Khrennikov

Quantum mechanics from classical mechanics with Hilbert phase space

10.00-10.20 T. F. Kamalov

Model of extended Newtonian dynamics and Feynman's path integrals

10.30-11.00 Coffee break

11.00-11.20 D. Reitzner

Scattering-quantum-walk searches on highly symmetric graphs

11.20-11.40 Ch. Gabriel

Quantum random number generator using homodyne detection

11.40-12.00 F. Caruso

Noise-assisted transport in biological quantum networks

12.00-12.20 E. Karpov

Parallel bosonic Gaussian additive noise channels with a total input energy constraint.

12.30-14.00 Lunch (*Atrium*)

14.00-14.20 J. Di Guglielmo

Bayesian reconstruction of quantum states: a Markov chain Monte Carlo approach

14.20-14.40 H. M. Wiseman

Heisenberg-limited interferometry - how easy can it get?

14.40-15.00 R. Munoz-Tapia

Phase estimation with Gaussian states

15.00-15.20 S. Olivares

Bayesian noisy phase estimation in qubit systems: from theory to experiment

15.30-16.00 Coffee break

16.00-16.20 A. Feito

Detector tomography

16.20-16.40 Ch. Wittman

Near-optimal state discrimination of optical coherent states

16.40-17.00 A. Isar

Continuous variable entanglement in open quantum systems

G. Leuchs

M. Bellini

C. J. Villas-Boas

T. C. Ralph

L. Skála

M. Wolf

W. Vogel

B. Hage

Friday, June 26

J. Peřina

- 9.00-9.30 H. Weinfurter (invited)
Multiphoton entanglement - tools and toys
 - 9.30-10.00 H. Matsueda (invited)
Quantum dot realization of quantum information processing
 - 10.00-10.50 A. Zeilinger (invited)
Long-distance quantum entanglement experiments
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- 10.50-11.20 Coffee break
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A. Aćin

- 11.20-11.40 A. B. Klimov
Coherent and squeezed states for discrete systems
 - 11.40-12.00 J. H. Samson
Wigner functions and path integrals
 - 12.00-12.20 B. Bellomo
Extraction of a squeezed state in a field mode via repeated measurements on an auxiliary quantum particle
 - 12.20-12.40 K. Zhang
Investigation of continuous-wave squeezed state at a telecommunication wavelength
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- 13.00-14.00 Lunch (*Atrium*)
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- 11.20-11.40 J. Ashmead
Quantum time
 - 11.40-12.00 J. Dunningham
Nonlocality of a single particle
 - 12.00-12.20 C. Parmeggiani
Events and probabilities in quantum theories
 - 12.20-12.40 Y. Shikano
Weak values with decoherence
 - 12.40-13.00 V. Dvoeglazov
P, C and T for truly neutral particles
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- 13.00-14.00 Lunch (*Atrium*)
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V. I. Man'ko

