



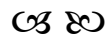
Solvay workshop "Bits, Quanta, and Complex Systems:  
modern approaches to photonic information processing"

Poster sessions

Wednesday 30 April 2008

Romain Alléaume (Ecole Nationale Supérieure des Télécommunications, France)

Title: "The SECOQC QKD network demonstrator: from quantum physics to network security applications"



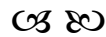
Kazuya Amano (Takushoku University, Japan)

Title: "Analysis on fractal dimension of chaotic light scattering in regular-polyhedral mirror-ball structures"



Lucie Bartuskova (Palacky University, Czech Republic)

Title: "Several experimental realizations of phase-covariant quantum cloning machines"



Thierry Bastin (University of Liege, Belgium)

Title: "Switching entanglement classes via local operations"



Mohamed Bourennane (Stockholm University, Sweden)

Title: "Single Particle Quantum Multiparty Communication"



Edouard Brainis (Oxford University, UK)

Title: "Towards a Scalable Dipole-Trapping Scheme for Neutral Atoms"



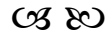


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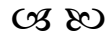
Nicolas Brunner (University of Geneva, Switzerland)

Title: "Testing the Hilbert space dimension"



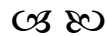
Adan Cabello (University of Seville, Spain)

Title: "Extreme quantum nonlocality"



Daniel Cavalcanti (Institute of Photonic Sciences, Spain)

Title: "Scaling laws for the decay of multiqubit entanglement"



Anatoly Chirkin (M.V. Lomonosov Moscow State University, Russia)

Title: "Bright four-partite entangled states generated in an aperiodic nonlinear photon crystal"



Francesco Ciccarello (University of Palermo, Italy)

Title: "A scheme for extracting the singlet state of two non-interacting high-dimensional atoms"



Pere Colet (Consejo Superior de Investigaciones Cientificas, Spain)

Title: "Synchronization of coupled semiconductor lasers subject to filtered optical feedback"



David Daems (Université Libre de Bruxelles, Belgium)

Title: "Adiabatic quantum search scheme with atoms in a cavity driven by lasers"

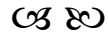


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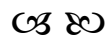
Jan Danckaert (Vrije Universiteit Brussel, Belgium)

Title: "Nonlinear dynamics in semiconductor ring lasers"



Ellie D'Hondt (Vrije Universiteit Brussel, Belgium)

Title: "An operational classification of entanglement"



John Dudley (Université de Franche-Comté, France)

Title: "Harnessing and Control of Optical Rogue Waves"



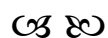
Radim Filip (Palacky University, Czech Republic)

Title: "Quantum communication with noisy coherent states"



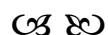
Jaromir Fiurasek (Palacky University, Czech Republic)

Title: "Gaussian localizable entanglement"



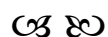
Artur Garcia-Saez (Institute of Photonic Sciences, Spain)

Title: "Thermal bound entanglement in macroscopic systems and area laws"



Jiri Herec (Palacky University, Czech Republic)

Title: "Asymmetric cloning of complementary quadratures into atomic memories"



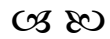


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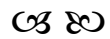
Sofyan Iblidir (University of Barcelona, Spain)

Title: "Topologically Ordered Systems at Finite Temperature"



Francesco Intravaia (Universität Potsdam, Germany)

Title: "Casimir Effect and Open Quantum Systems"





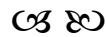
Solvay workshop "Bits, Quanta, and Complex Systems:  
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Thursday 1 May 2008

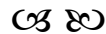
Satoshi Iriyama (Tokyo University of Science, Japan)

Title: "Generalized Quantum Turing Machine and Its Application for SAT Problem"



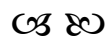
Elchin Jafarov (Azerbaijan National Academy of Sciences, Azerbaijan)

Title: "Behaviour of the q-deformed quantum harmonic oscillator in the phase space"



Franziska Kaminski (University of Copenhagen, Denmark)

Title: "Superradiance in a Rb87 BEC"



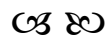
Alexander Kubanek (Max-Planck-Institut für Quantenoptik, Germany)

Title: "Spectroscopy of two photon resonances in a single-atom-cavity system"



Masahiko Kuraya (Takushoku University and NICT, Japan)

Title: "Blind source separation of chaotic lasers by independent component analysis"



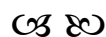
Lucas Lamata (Max-Planck-Institut für Quantenoptik, Germany)

Title: "Sequential Quantum Cloning"



Ben Lanyon (University of Queensland, Australia)

Title: "Quantum computing using shortcuts through higher dimensions"



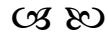


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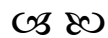
Karel Lemr (Palacky University, Czech Republic)

Title: "Preparation of entangled states of two photons in several spatial modes"



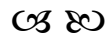
Juan Leon (Instituto de Fisica Fundamental, Spain)

Title: "Quantum correlations and the light cone"



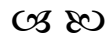
Jeff Lundeen (Oxford University, UK)

Title: "Experimental Quantum Detector Tomography"



Aikaterini Mandilara (Laboratoire Aimé Cotton, France)

Title: "Bounds on the non-Gaussianity of mixed quantum states with positive Wigner function"



John Martin (University Paul Sabatier, France)

Title: "Time reversal of atomic matter waves interacting with light"



Vicente Martin (Universidad Politécnica de Madrid, Spain)

Title: "Quantum Key Distribution from a Telecommunications Company Perspective"



Antonio Messina (University of Palermo, Italy)

Title: "Entanglement in spin systems"

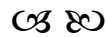


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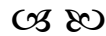
Riccardo Meucci (Istituto Nazionale di Ottica Applicata, Italy)

Title: "Synchronization of laser bursting"



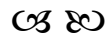
Benedetto Militello (University of Palermo, Italy)

Title: "Extraction of pure states through repeated measurements: from the ideal to the non-ideal case"



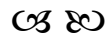
Claudio Mirasso (Universitat de les Illes Balears, Spain)

Title: "Chaos based communications using integrated semiconductor lasers."



Claudio Mirasso (Universitat de les Illes Balears, Spain)

Title: "Chaotic dynamics of a semiconductor laser with double cavity feedback."



Ladislav Mista (Palacky University, Czech Republic)

Title: "Distribution of continuous-variable entanglement by separable Gaussian states"



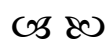
Tomoyuki Morimae (University of Tokyo, Japan)

Title: "Quasi joint probability density for quantum many-body states"



Ahsan Nazir (University College London, UK)

Title: "Indistinguishability of photons from dephasing solid-state qubits"



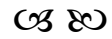


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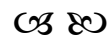
Bo Melholt Nielsen (University of Copenhagen, Denmark)

Title: "Non-classical states for light-atom interfaces"



Guy Van der Sande (Vrije Universiteit Brussel, Belgium)

Title: "Chaotic synchronization in rings of delay-coupled oscillators"





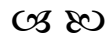
Solvay workshop "Bits, Quanta, and Complex Systems:  
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Friday 2 May 2008

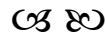
Julien Niset (Université Libre de Bruxelles, Belgium)

Title: "Experimentally feasible quantum erasure-correcting code for continuous variables"



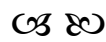
Clara Inès Osorio (Institute of Photonic Sciences, Spain)

Title: "Space - frequency entanglement in spontaneous parametric down conversion"



Jae Park (NIST, USA)

Title: "Recent progress in circuit-QED using superconducting phase qubits"



Roberto Passante (University of Palermo, Italy)

Title: "Dynamical Casimir-Polder forces between an atom and a conducting wall"



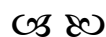
Gerardo Andres Paz Silva (Macquarie University, Australia)

Title: "Mirror transport in arbitrary dimension"



Servio Tulio Perez Merchancano (University of Cauca, Colombia)

Title: "Spin transport properties in double-barrier systems with diluted magnetic semiconductor doped layers"



Stefano Pirandola (Massachusetts Institute of Technology, USA)

Title: "Asymptotic Security in Gaussian Quantum Cryptography"

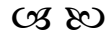


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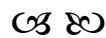
Lothar Ratschbacher (Technical University of Vienna, Austria)

Title: "Single Photon Up-Conversion (SPUC)"



Arno Rauschenbeutel (University of Mainz, Germany)

Title: "Cold-Atom Physics Using Ultrathin Optical Fibers"



Uwe Sander (Technical University of Munich, Germany)

Title: "A Unified View on Controllability of Spin Chains"



Benjamin Schrauwen (Ghent University, Belgium)

Title: "Photonic reservoir computing"



Thomas Schulte-Herbrueggen (Technical University Munich, Germany)

Title: "Controlling Open Quantum Systems: A Challenge for Theory and Experiment"



Holger Specht (Max-Planck-Institut für Quantenoptik, Germany)

Title: "Atom-Photon Interface with an Atom in a High-Finesse Optical Cavity"



Magdalena Stobinska (Erlangen-Nuremberg University, Germany)

Title: "4-pi Photon-Atom Coupling in Free Space"

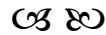


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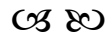
Denis Sych (University of Erlangen-Nuremberg, Germany)

Title: "The structure and properties of symmetric and antisymmetric maximally entangled multidimensional bip"



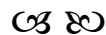
Daniel Terno (Macquarie University, Australia)

Title: "On entanglement, area laws and information loss paradox"



Geza Toth (Institute of Photonic Sciences, Spain)

Title: "Optimal spin squeezing inequalities for detecting entanglement in spin systems"



Denis Vasilyev (St. Petersburg State University, Russia)

Title: "Parallel quantum memory for light based on volume hologram with rotating spins"



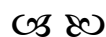
Stefan Weigert (University of York, UK)

Title: "Mutually Unbiased Bases for Continuous Variables"



Martijn Wubs (University of Copenhagen, Denmark)

Title: "Mode-reduction analysis of 1- and 2-photon subtracted squeezed states"



Marek Zukowski (University of Gdansk, Poland)

Title: "New sufficient and necessary condition for entanglement"



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Frederik Vanden Berghe (Vrije Universiteit Brussel, Belgium)

Title: "Symmetric Informationally Complete POVM tomography: Theory and Applications"

