

Poster Session 1

THURSDAY, November 30, 2006

POSTER Session : Quantum Optics for Information Processing, Quantum Information Theory
| 14:00-16:00

William J. Munro, Chair

Paper #

- P1-1 **Yoshiaki Rikitake**, Hiroshi Imamura, Hideo Kosaka
“Fidelity of the photon-spin quantum state transfer”
- P1-2 **G. Hetet**, M. T. L. Hsu, O. Gloeckl, B. C. Buchler, J. J. Longdell, A. Peng, M. T. Johnsson, J. J. Hope, H. -A. Bachor, P. K. Lam
“Slowing and storing quantum information using EIT”
- P1-3 **N. Shiga**, W. M. Itano, J. J. Bollinger
“Progress toward making spin squeezed states with ions in a Penning-Malmberg trap”
- P1-4 **Kentaro Wakui**, Hiroki Takahashi, Akira Furusawa, Masahide Sasaki
“Highly nonclassical photon-subtracted squeezed states generated from nearly pure squeezed states”
- P1-5 **Monisha Kamala Mahanta**
“SLM and fiber-optic experimentation on Laguerre-Gaussian beams for QI application”
- P1-6 **Satoru Odate**, Akio Yoshizawa, Hidemi Tsuchida
“Tomographic evaluation of polarization-entangled photon pairs in the telecom wavelength band using a fiber interferometer”
- P1-7 **Julio T. Barreiro**, Nicholas A. Peters, Paul G. Kwiat
“Remote Preparation of single-photon entangled states”
- P1-8 **Till J. Weinhold**, Kevin J. Resch, Jeremy L. O'Brien, Geoff J. Pryde, Andrew G. White
“The good and the bad of double-pair down-conversion in quantum information”
- P1-9 **Ryo Okamoto**, Shigeki Takeuchi, Keiji Sasaki
“The effect of phase dispersion for two photon interference”
- P1-10 **Noriyuki Lee**, Nobuyuki Takei, J. S. Neergaard-Nielsen, Akira Furusawa
“Time domain Einstein-Podolsky-Rosen correlation”
- P1-11 **Radim Filip**, Petr Marek, Jiri Herec
“Continuous-variable non-Gaussian noise reduction without/with quantum memory”
- P1-12 **Sebastien G. R. Louis**, Kae Nemoto, Bill Munro, Tim Spiller
“Efficiently generating cluster states with weak non-linearities”
- P1-13 **Casey R. Myers**, Marcus Silva, Kae Nemoto, William J. Munro
“Stabilizer quantum error correction with weak non-linearities”

P1-14	Hyunseok Jeong , Andrew M. Lance, Nicolai B. Grosse, Thomas Symul, Ping Koy Lam, Timothy C. Ralph "Conditional quantum state engineering for non-Gaussian states in free-traveling optical fields"
P1-15	Sarah Croke , Peter J. Mosley, Stephen M. Barnett, Ian A. Walmsley "Maximum confidence measurements and their optical implementation"
P1-16	John Jeffers "Hi-fidelity postselecting optical devices"
P1-17	Mikhail I. Kolobov , Liubov V. Magdenko, Ivan V. Sokolov "Quantum teleportation of optical images with frequency conversion"
P1-18	Patrick M. Leung , Timothy C. Ralph "Improving fidelity of skewed output States of optical Zeno gates"
P1-19	S. Gigan , H. R. Boehm, M. Paternostro, F. Blaser, M. Aspelmeyer, A. Zeilinger "Towards radiation pressure self-cooling of a micro-mirror"
P1-20	Rakesh Kumar , Hari Prakash "Collapses and revivals in two-level atoms in a superposed state interacting with a single mode superposed coherent states"
P1-21	Alberto Pretel , John H. Reina, Richard W. Aguirre "Excitonic dynamics and quantum control of an artificial atom coupled to a laser-driven semiconductor microcavity"
P1-22	Narine T. Gevorgyan , Hayk H. Adamyan, Gagik Yu. Kryuchkyan "Time-dependent squeezing: generation and applications"
P1-23	Mark Wilde , Bart Kosko "Quantum forbidden-interval theorem for stochastic resonance with squeezed light"
P1-24	Thomas B. Bahder , Paul A. Lopata "Phase sensitivity of a Mach-Zehnder quantum sensor"
P1-25	Masahito Hayashi "Gallager bound of classical-quantum channel coding"
P1-26	Saikat Guha , Jeffrey H. Shapiro "Bosonic broadcast channel capacity and a new minimum output entropy conjecture"
P1-27	Tohya Hiroshima "Additivity and multiplicativity properties of some Gaussian channels for Gaussian inputs"
P1-28	Rex A. C. Medeiros , Romain Alleaume, Gerard Cohen, Francisco M. de Assis "On the zero-error capacity of quantum channels and noiseless subsystems"
P1-29	Masaki Sohma "Reliability function for transmission of classical information with multi-mode quantum Gaussian states"
P1-30	Yuki Ishida , Kentaro Kato, Tsuyoshi Sasaki Usuda "Capacity of attenuated channel with discrete-valued input"

P1-31	Hsin-Hung Chou , Jay Cheng "New lower bounds on the average base length of lossless quantum data compression"
P1-34	Masahiro Hotta , Tokishiro Karasawa, Keiji Matsumoto, Masanao Ozawa "Low-noise channel estimation"
P1-35	Damian Markham , Akimasa Miyake, Shashank Virmani, Masaki Owari, Mio Murao, Masahito Hayashi "Entanglement and local access of information for graphs states"
P1-36	Massimiliano F. Sacchi "Optimal information-disturbance tradeoff in quantum state estimation and discrimination"
P1-37	Francesco Buscemi , Massimiliano F. Sacchi "Information-disturbance tradeoff in quantum state discrimination"
P1-39	Lorenzo Maccone "Information-disturbance tradeoff in quantum measurements"
P1-40	Adan Cabello "Bell inequalities based on equalities"
P1-41	Erika Andersson , Michael J. W. Hall, James D. Cresser "Finding the general form of master equations"
P1-42	H. Bombin , M. A. Martin-Delgado "Topological quantum distillation"
P1-43	Hsi-Sheng Goan , Kuan-Liang Liu "Non-Markovian dynamics of the entanglement of electromechanical oscillators in thermal environments"
P1-44	Hsi-Sheng Goan , X. Z. Yuan, K. D. Zhu "Entanglement evolution of two coupled spin qubits in a quantum spin environment"
P1-45	Hoshang Heydari "General pure multipartite entangled states and complex projective variety"
P1-47	Otfried Guehne , Norbert Luekenhaus, Matyas Mechler, Geza Toth, Peter Adam "Nonlinear entanglement witnesses"
P1-48	P. S. Turner , S. D. Bartlett, T. R. Rudolph, B. C. Sanders "Quantum and semi-classical approaches to reference frame degradation"
P1-49	Mark S. Byrd , C. Allen Bishop "Decoherence-free/noiseless subspaces for systems of qudits"
P1-50	S. J. Jones , H. M. Wiseman, A. C. Doherty "Steering, entanglement and quantum nonlocality"
P1-51	Taksu Cheon "Quantum entanglement in quantum strategies"
P1-52	Onur Hosten , Paul G. Kwiat "The meaning of counterfactuality in quantum processes"

P1-53 **Wee Kang Chua**, Jeremy Chong, Ye Yeo, Chee Leong Ching, Andreas Dewanto,
Zhi Han Lim
“Detection of gravitational waves - an application of relativistic quantum information theory”

P1-54 **Dominic W. Berry**
“Implementation of tensor product Hamiltonians”

P1-55 **Masaki Owari**, Masahito Hayashi, Damian Markham, Akimasa Miyake, Mio Muraio,
Shashank Virmani
“Multipartite distance like measure of entanglement for a class of symmetric states”

P1-57 **Ye Yeo**, Wee-Kang Chua
“Maximal generalized singlet fraction and optimal teleportation with a mixed state of four qubits”