

24日		
9:00 Opening		
9:10	Quantum or Classical ? qubits measurement using Bifurcation in Anhamonic Oscillator.	Hayato Nakano (NTT/CREST)
9:30	Backscattering-free quantum key distribution system based on planar lightwave circuits	Yoshihiro Nambu, Ken'ichiro Yoshino (NEC), Akihisa Tomita (ERATO)
9:50	Ceaseless Quantum Key Generation Field Trial over Aerial Installed Commercial Access Fiber	Akihiro Tanaka, Wakako Maeda, Akio Tajima, Seigo Takahashi (NEC)
10:10	An ultra-compact dual-APD photon receiver module for quantum cryptography	Seigo Takahashi, Takeshi Takeuchi, Akio Tajima (NEC), Akihisa Tomita (NEC/ERATO)
10:30 Coffee Break		
10:50	Efficient quantum algorithms for the hidden subgroup problem over semi-direct product groups	Yoshifumi Inui, Francois Le Gall (Univ. of Tokyo/ERATO)
11:10	A quantum protocol to win the graph colouring game on all Hadamard graphs	David Avis (Mc Gill Univ.), Jun Hasegawa (Univ. of Tokyo/ERATO), Yosuke Kikuchi (ERATO), Yuuya Sasaki (Univ. of Tokyo)
11:30	Performances of the quantum annealing method	Sei Suzuki, Masato Okada (Univ. of Tokyo/RIKEN)
11:50	(Invited Talk) Quantum cryptographic entangling probes	Howard E. Brandt (U.S. Army Research Laboratory)
12:30 Lunch		
13:30	Optimal control simulation of quantum computation using molecules	Yukiyoshi Ohtsuki, Yoshiaki Teranishi (Tohoku Univ./CREST)
13:50	Influence of pure-dephasing by phonons on exciton-photon interfaces	Kunihiro Kojima, Akihisa Tomita (ERATO)
14:10	Fidelity of quantum media conversion from photon polarization to electron spin	Yoshiaki Rikitake, Hiroshi Imamura (Tohoku Univ./CREST)
14:30	Magnetic field dependence of coherence time in flux qubit	Kosuke Kakuyanagi, Shiro Saito, Koichi Semba, Hideaki Takayanagi (NTT/CREST)
14:50	Artificial decoherence and its suppression in NMR quantum computer	Yasushi Kondo, Mikio Nakahara (Kinki Univ.), Shogo Tanimura (Osaka City Univ.)
15:10	(Invited Talk) Fano effect in quantum hybrid systems	Kensuke Kobayashi (Kyoto Univ.)
15:50 Coffee Break		
16:10	Stationary quantum Markov process for the Wigner function	Takaaki Hashimoto, Minoru Horibe, Akihisa Hayashi (Fukui Univ.)
16:30	Reverse estimation theory, complementarity between SLD and RLD, and monotone metric	Keiji Matsumoto (NII/ERATO)
16:50	(Tutorial Talk) Uncertainty principle and quantum information theory	Masanao Ozawa (Tohoku Univ.)
17:30 Banquet		

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8:45	Separability and non-separability for composite systems of distinguishable fermions and the univalence superselection rule	Hajime Moriya (Hokkaido Univ.)
9:05	Entanglement measure for measurement-induced non-Gaussian state	Akira Kitagawa, Masahiro Takeoka, Masahide Sasak(NICT/CREST), Anthony Chefles (Univ. College Dublin)
9:25	Transfer of single photon polarization states by two-channel continuous variable teleportation	Toshiki Ide (Okayama Institute for Quantum Physics), Holger F. Hofmann (Hiroshima Univ./CREST)
9:45	Some open problems on Bell inequalities and partial solutions to them	Tsuyoshi Ito (Univ. of Tokyo), Hiroshi Imai (Univ. of Tokyo/ERATO), David Avis (Mc Gill Univ.)
10:05	Coffee Break	
10:25	Unconditional security of the SARG04 protocol	Masato Koashi (Osaka Univ./CREST)
10:45	New attacks on coherent-state-based BB84 protocols	Ranjith Nair, Horace P. Yuen (Northwestern Univ.)
11:05	Secret parameters in quantum bit commitment	Chi-Yee Cheung (Academia Sinica)
11:25	(Invited Talk) Unconditionally secure quantum bit commitment	Horace P. Yuen (Northwestern Univ.)
12:05	Lunch	
13:05	Hypothesis testing for an entangled state produced by spontaneous parametric down conversion	Yoshiyuki Tsuda (Chuo Univ. COE), Bao-Sen Shi, Akihisa Tomita (ERATO), Masahito Hayashi (ERATO/Univ. Tokyo COE), Keiji Matsumoto (ERATO/NII), Yun-Kun Jiang (ERATO)
13:25	Ancilla-Assisted Enhancement of Channel Estimation for Low-Noise Parameters	Masahiro Hotta, Tokishiro Karasawa, Masanao Ozawa (Tohoku Univ.)
13:45	Characterization of several kinds of quantum analogues of relative entropy	Masahito Hayashi (ERATO/Univ. of Tokyo COE)
14:05	(Im)possibility of Quantum Repeater	Kenichiro Furuta, Hirofumi Muratani, Taichi Isogai, Tomoko Yonemura (Toshiba Corp.)
14:25	(Invited Talk) Optimal superbroadcasting of mixed qubit states	Francesco Buscemi, Giacomo M. D'Ariano, Chiara Macchiavello, Paolo Perinotti (Univ. of Pavia)
15:05	Poster session	
16:35	Heralded single photon source at 1550nm from pulsed parametric down conversion	Alexandre Soujaeff, Shigeki Takeuchi, Keiji Sasaki (Hokkaido Univ./CREST), Toshio Hasegawa, Mitsuru Matsui (Mitsubishi Electric Corp.)
16:55	Highly efficient polarization entangled-photon source from Periodically Poled Lithium Niobate waveguides	Yun-kun Jiang, Akihisa Tomita (ERATO/NEC)
17:15	Closing	

Posters		
1	Preliminary experiment on 1550 nm quantum key distribution using polarization entanglement	Akio Yoshizawa, Hidemi Tsuchida (AIST)
2	Multi-particle entanglement under asymptotic positive partial transpose preserving operations	Satoshi Ishizaka (NEC/PRESTO), Martin B. Plenio (Imperial College)
3	Gaussian individual attacks for continuous-variable quantum key distribution	Ryo Namiki, Masato Koashi, Nobuyuki Imoto (Osaka Univ./CREST)
4	Analysis of spatial propagation properties of beam-like parametric fluorescence by use of a tuning curve filtering method	Yoshio Kawabe, Hideki Fujiwara, Shigeki Takeuchi (Hokkaido Univ.), Keiji Sasaki(Hokkaido Univ./CREST)
5	Constructing pulsed homodyne detector for quantum state tomography	Tosiyuki tashima, Sahin Kaya Ozdemir (Osaka Univ./CREST/SORST), Ryo Namiki, Takashi Yamamoto (Osaka Univ./CREST), Masato Koashi, Nobuyuki Imoto (Osaka Univ./CREST/SORST)
6	1-qubit operation in solid-state NMR under Lee-Goldburg irradiation	Shogo Yamanaka, Kazuyuki Takeda, Masahiro Kitagawa (Osaka Univ.)
7	Magnetic traps for atoms using superconducting micro-structures	Alexander Kasper, Taro Eichler (NTT/CREST), Tetsuya Mukai (NTT/CREST/COE Project 'Coherent Optical Science'), Munekazu Horikoshi, Carole Planchette (NTT/CREST/UEC), Fujio Shimizu (NTT/CREST/UEC/COE Project 'Coherent Optical Science')
8	Theoretical circuit analysis of quantum measurement processes	Yuji Kurotani, Masahito Ueda (Tokyo Institute of Technology)
9	A study on application of qubit devices to a quantum neural network	Yuuki Nakamiya, Mitsunaga Kinjo, Shigeo Sato, Koji Nakajima (Tohoku Univ.)
10	Quasi-phase mated Type II twin photon generator with adhered waveguide in the telecom band	Masayuki Motoya (NIMS/Nihon Univ.), Sunao Kurimura(NIMS/Waseda Univ.), Yusuke Usui, Hirochika Nakajima (Waseda Univ.), Shuichiro Inoue (Nihon Univ.)
11	Bayesian prediction of the Gaussian states from n sample	Fuyuhiko Tanaka, Fumiyasu Komaki (Univ. of Tokyo)
12	Single atom trapping and its application to quantum information processing	Yusuke Nakagawa, Ken'ichi Nakagawa (UEC)
13	1.5-um band qantum-correlated photon pair generation in dispersion-shifted fiber: suppression of noise photons by cooling fiber	Hiroki Takesue (NTT/CREST), Kyo Inoue (Osaka Univ./CREST)
14	Generation of femtosecond pulsed squeezed light in optical telecommunication band	Yuta Takahashi (Nihon Univ./Waseda Univ.), Keiichi Hirano, Go Fujii, Susumu Machida, Shuichiro Inoue (Nihon Univ.), Shinichi Komatsu (Waseda Univ.), Sunao Kurimura (NIMS)
15	An information geometrical approach to SU(3)-channel estimation problem	Hiroshi Imai (Osaka Univ.)
16	StateTomography for a Multi-Qubit System via Measurements on a Single Qubit	Kosuke Okano, Kazuya Yuasa, Hiromichi Nakazato (Waseda Univ.), Kanji Yoh (Hokkaido Univ./CREST)

17	Cavity-controlled optical-lattice quantum computer	Fujio Shimizu (NTT/UEC/CREST/COE), Tetsuya Mukai (NTT/CREST)
18	Spatial correlation effect in two-photon diffraction and interference	Ryosuke Shimizu (CREST), Keiichi Edamatsu (Tohoku Univ./CREST)
19	Implementation of quantum gate operations in molecules with weak laser fields	Yoshiaki Teranishi, Yuki Yoshi Ohtsuki (Tohoku Univ./CREST), Kenji Ohmori (IMS/CREST)
20	Quantum sealing schemes against collective measurement attacks	Tatsuhiko Katsumata, Masaki Nakanishi, Shigeru Yamashita, Katsumasa Watanabe (NAIST)
21	Is the dilemma of the battle of the sexes game resolved in quantum mechanics?	Tsubasa Ichikawa, Izumi Tsutsui (KEK)
22	Estimation of correlations from the knowledge of reduced density operator	Gen Kimura (Tohoku Univ.), Hiroyuki Hayashi (Waseda Univ.)
23	Efficiency measures for interaction-free measurements	Jonas Soderholm, Shuichiro Inoue (Nihon Univ.)