

Invited Talks List [1/2 page]

April 9 (Tue)				
Session 1 Atomic and Photonic QIP1				
9:35-10:10	Polzik , Eugene	Copenhagen Univ	Deterministic quantum teleportation between distant atomic objects	
10:10-10:45	Yamamoto , Takashi	Osaka Univ	Visible-to-Telecommunication wavelength conversion of single photons and its applications	
Session 2 Atomic and Photonic QIP2				
11:05-11:40	Takeuchi , Shigeki	Hokkaido Univ	Photonic quantum circuits and single photon sources	
11:40-12:15	Furusawa , Akira	Tokyo Univ	Hybrid quantum information processing	
Session 3 Precision Measurement 1				
15:00-15:35	Katori , Hidetoshi	Tokyo Univ	Optical lattice clocks: A decade after Yatsugatake US-Japan seminar	
15:35-16:10	Yamazaki , Yasunori	Riken	Toward Precision Measurements of Antihydrogen Atoms for the CPT symmetry Test	
Session 4 Precision Measurement 2				
16:30-17:05	Hinds , Edward	Imperial College	Measurement of the electron electric dipole moment using YbF: status and prospects	
17:05-17:40	Doyle , John	Harvard Univ	Cold Molecules: Science and Applications	
April 10 (Wed)				
Session 5 Atomic and Photonic QIP3				
9:00-9:35	Vuletic , Vladan	MIT	Photon-photon interactions	
9:35-10:10	Saffman , Mark	Wisconsin Univ	Quantum computing with optically trapped Rydberg atoms	
Session 6 Quantum Simulation 1				
10:30-11:05	Zwierlein , Martin	MIT	Heavy Solitons in a Fermionic Superfluid	
11:05-11:40	Lev , Benjamin	Stanford Univ	Exploring quantum soft matter using ultracold atoms	
11:40-12:15	Takahashi , Yoshiro	Kyoto Univ	Quantum simulation with ultracold ytterbium atoms	
Session 7 Quantum Simulation 2				
15:00-15:35	Yamamoto , Yoshihisa	Stanford Univ / NII	Coherent Ising machine based on laser/OPO network	
15:35-16:10	Gonokami , Makoto	Tokyo Univ	Exciton Bose-Einstein condensation in a bulk semiconductor crystal	
Session 8 Quantum Simulation 3				
16:30-17:05	Chin , Cheng	Chicago Univ	Strongly interacting Bose gas in two dimensions	
17:05-17:40	Stamper-Kurn , Dan	UC Berkeley	Magnetism and Frustration in Atomic Gases	

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April 11 (Thu)				
Session 9 Quantum Information Theory				
9:00-9:35	Koashi , Masato	Tokyo Univ	Security of quantum key distribution using phases on a coherent pulse train	
9:35-10:10	Sagawa , Takahiro	Tokyo Univ	Nonequilibrium Thermodynamics of Quantum Information Processing	
Session 10 Solid State QIP 1				
10:30-11:05	Lukin , Mikhail	Harvard Univ	Nanophotonic quantum interfaces for atoms and atom-like systems	
11:05-11:40	Ito , Kouhei	Keio Univ	Band engineering of diamond towards magnetometry using NV centers	
11:40-12:15	Negoro , Makoto	Osaka Univ	Spin amplification with hyperpolarized nuclei	
Session 11 Quantum Simulation 4				
15:00-15:35	Ye , Jun	JILA Boulder	From Optical atomic clocks to dipolar quantum gases	
15:35-16:10	Inouye , Shin	Tokyo Univ	Experiments on ultracold KRb molecules	
Session 12 Quantum Simulation 5				
16:30-17:05	Rey , Ana Maria	JILA Boulder	Exploring non-equilibrium many-body physics with alkaline-earth atoms and polar molecules	
17:05-17:40	Ueda , Masahito	Tokyo Univ	Topological Excitations in Bose-Einstein Condensates	
17:40-18:15	Ohmori , Kenji	IMS	Ultrafast Coherent Control of an Ultracold Rydberg Gas	
April 12 (Fri)				
Session 13 Solid State QIP 2				
9:00-9:35	Imamoglu , Atac	ETH Zurich	Spin-photon quantum interface in quantum dots	
9:35-10:10	Tarucha , Seigo	Tokyo Univ	Manipulation and detection of quantum coherence and entanglement with quantum dots	
Session 14 Solid State QIP 3				
10:30-11:05	Siddiqi , Irfan	UC Berkeley	Dissipation Enhanced Coherence in Superconducting Qubits	
11:05-11:40	Nakamura , Yasunobu	Tokyo Univ	Driven artificial atoms in superconducting circuit QED	
11:40-12:15	Semba , Kouichi	NII	Superconducting flux qubit NV-diamond hybrid quantum system	