CREST “Creation of an Innovative Quantum Technology Platform Based on the Advanced Control of Quantum States”
The Second Symposium

Maskawa Hall of Maskawa Building for Education and Research
at Kyoto University
December 7-8, 2017

Registration is free
Registration Deadline is December 5, 2017 (Tue)

Program

December 7 (Thurs)
13:00 Y. Arakawa (University of Tokyo)
Opening Remarks
13:10 T. Nishiyama (Director, Office for Quantum Science and Technology, MEXT, Japan)
Greetings
13:20 (Invited Talk) Y. Nakamura (University of Tokyo),
“Macroscopic quantum machines”
14:00 N. Imoto (Osaka University)
“Quantum network with an atomic ensemble and a telecom photon”
14:30 M. Kitagawa (Osaka University)
“Dissolution DNP using triplet electrons towards hypersensitive NMR/MRI”
15:00 Break
15:20 Y. Takahashi (Kyoto University)
“Development of advanced optical lattice quantum simulator by high-level control of cold atoms”
15:50 S. Takeuchi (Kyoto University)
“Research on the efficient generation of the broadband frequency entangled photons and their applications”
16:20 S. Tarucha (RIKEN)
“Improved fidelity of readout and gate operation in spin qubits with quantum dots”
16:50 J. S. Tsai (Tokyo University of Science)
“Photo-based quantum information processing with superconducting artificial atoms”
17:20 Break
December 8 (Fri)
9:30 (Invited Talk) A. Furusawa (University of Tokyo)
“Hybrid quantum information processing: A way for large-scale optical quantum information processing”
10:10 (Invited Talk) E. Giacobino, P. Chomaz, D. Noel (Agence Nationale de la Recherche, France)
“Quantum technologies in France”
10:50 Break
11:00 T. Aoki (Waseda University)
“Nanofiber cavity QED system for scalable optical quantum computation”
11:20 F. Kannari (Keio University)
“Programmable large-scale quantum simulator using wavelength-division multiplexed” optical modes”
11:40 H. Kosaka (Yokohama National University),
“Diamond quantum security”
12:00 Lunch Break
13:00 S. Saito (NTT Basic Research Laboratories)
“Quantum sensing using superconducting flux qubits”
13:20 K. Semba (National Institute of Information and Communications Technology)
“Superconducting quantum metamaterial”
13:40 U. Tanaka (Osaka University)
“On-chip ion traps for integrated quantum systems”
14:00 M. Tanaka (University of Tokyo)
“Ferromagnetic quantum heterostructures: creation of functional properties and spintronics device applications”
14:20 Y. Arakawa (University of Tokyo)
Closing Remarks


Registration
For registration, please visit the following site, and submit your information.
https://form.jst.go.jp/enquetes/quantum_technology2
Organizers
Department of Innovation Research, Japan Science and Technology

Co-organizers
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