

## The 3rd KAKENHI Quantum cybernetics General Meeting

Date: 5th August, 2010  
 Place: Hotel Granvia Kyoto (Kyoto, Japan)  
 Participants: 12 p.

### Program:

time	content	speaker
10:30 – 10:40	Opening remarks	J.S. Tsai
10:40 – 11:00	①Study of superconducting quantum cybernetics	J.S. Tsai
11:00 – 11:20	②Study of the control, measurement, and transfer of quantum information using a semiconductor nanoassembly	Y. Tokura
11:20 – 11:40	③Molecular spin quantum control	M. Kitagawa
11:40 – 12:00	④Molecular spin quantum control	T. Takui
12:00 – 13:00	Luncheon Meeting	
13:00 – 13:20	⑤Quantum control using cold atoms	Y. Takahashi
13:20 – 13:40	⑥Quantum information processing using an ion trap system	S. Urabe
13:40 – 14:00	⑦Realization of quantum cybernetics using photonic quantum circuits	R. Okamoto
14:00 – 14:20	⑧Light-based multi-qubit quantum control	M. Koashi
14:20 – 14:45	⑨Manipulation of electron spin and nuclear spins in hetero-g-factor double quantum dot	K. Ohno
14:45 – 14:55	Break	
14:55 – 15:20	⑩Study of single NV center in diamond toward scalable multi-qubit system	N. Mizuochi
15:20 – 15:45	⑪Theory on quantum coherence in hybrid quantum system of superconductor and quantum dot	M. Mori
15:45 – 16:10	⑫Realization of cluster quantum computation using a Fermi-degenerate $^{171}\text{Yb}$ atomic ensemble	M. Kohzuma
16:10 – 17:30	Soukatsuhan Meeting, Research planning meeting Agenda: Interdisciplinary (Open solicitation, Internship) / Student chapter / Mailing list / HP (Newsletter/Publication/Symposium, etc) / General Meeting in December	All

### Participants List:

	name	affiliation	position
1	Jaw-Shen Tsai	RIKEN / NEC Green Innovation Laboratory	Team Leader / Senior Researcher
2	Yasuhiro Tokura	NTT Basic Research Laboratories	Executive Manager
3	Masahiro Kitagawa	Osaka University	Professor
4	Yoshiro Takahashi	Kyoto University	Professor
5	Shinji Urabe	Osaka University	Professor
6	Ryo Okamoto (Shigeki Takeuchi)	Hokkaido University	Assistant Professor
7	Masato Koashi	Osaka University	Associate Professor
8	Takeji Takui	Osaka City University	Professor
9	Keiji Ohno	RIKEN	Project Manager
10	Norikazu Mizuochi	University of Tsukuba	Lecturer
11	Michiyasu Mori	Japan Atomic Energy Agency	Assistant Principal Researcher
12	Mikio Kohzuma	Tokyo Institute of Technology	Associate Professor