

The 9th KAKENHI Quantum cybernetics General Meeting

Date: 11th – 12th July, 2013

Place: WTC Conference Center (Hamamatsucho, Tokyo)

Participants: 65p.

Program:

1st day: 11th July, 2013 (Thu)

Time	Theme	Speaker
10:00 – 10:15	Opening speech	Jaw-Shen Tsai
10:15 – 10:45	A01 Study of superconducting quantum cybernetics	Jaw-Shen Tsai
10:45 – 11:15	A02 Study of the control, measurement, and transfer of quantum information using a semiconductor nanoassembly	Yasuhiro Tokura
11:15 – 11:45	C02 Quantum information processing using an ion trap system	Shinji Urabe
11:45 – 12:15	D01 Realization of quantum cybernetics using photonic quantum circuits	Shigeki Takeuchi
12:15 – 13:15	Luncheon meeting	
13:15 – 13:45	D02 Light-based multi-qubit quantum control	Masato Koashi
13:45 – 14:15	C01 Quantum control using cold atoms	Yoshiro Takahashi
14:15 – 14:45	OSRP Research for electrical control of quantum information by NV center in diamond	Norikazu Mizuochi
14:45 – 15:00	Break	
15:00 – 16:00	Discussion	
16:00 – 18:00	Poster session	

2nd day: 12th July, 2013 (Fri)

Time	Theme	Speaker
09:00 – 09:30	B01 Molecular spin quantum control	Masahiro Kitagawa
09:30 – 10:00	B01 Molecular spin quantum control	Takeji Takui
10:00 – 10:30	OSRP Development of element technologies and elucidation of physics toward realization of silicon quantum bits	Tetsuo Koder
10:30 – 10:45	Break	
10:45 – 11:15	OSRP Heterogeneous Quantum Repeater Hardware	Van Meter Rodney
11:15 – 11:45	OSRP Classical Compilers for Topological Quantum Information Processing	Devitt Simon
11:45 – 12:15	OSRP Study of the initialization of an electron spin	Yasuaki Masumoto
12:15 – 13:00	Luncheon meeting	
13:00 – 13:30	OSRP Quantum non-equilibrium statistical physics and thermodynamics in the control and detection of quantum coherent processes	Yasuhiro Utsumi
13:30 – 14:00	OSRP Research on charge-state controlled single-photon device toward realizing long-distance transfer of electron spin state	Toshihiro Nakaoka
14:00 – 14:30	OSRP Toward Manipulation of Quantum Spin Information in Biomolecules	Hideto Matsuoka
14:30 – 14:45	Break	
14:45 – 15:30	Discussion	
15:30 – 15:45	Advisor's speech	Kazuhiko Misawa
15:45 – 16:00	Closing speech	Jaw-ShenTsai

Participants List:

	name	affiliation		name	affiliation
1	Yasuhiro Tokura	University of Tsukuba	34	Masazumi Fujiwara	Hokkaido University
2	Seigo Tarucha	University of Tokyo	35	Takashi Ono	Hokkaido University
3	Michihisa Yamamoto	University of Tokyo	36	Hideaki Takashima	Hokkaido University
4	Toshihiro Kubo	University of Tsukuba	37	Masato Koashi	University of Tokyo
5	Masahiko Taguchi	University of Tsukuba	38	Takashi Yamamoto	Osaka University
6	Satoshi Nakajima	University of Tsukuba	39	Rikizo Ikuta	Osaka University
7	Masahiro Kitagawa	Osaka University	40	Hideto Matsuoka	Universitat Bonn Osaka City University
8	Yasushi Morita	Osaka University	41	Simon Devitt	NII
9	Akinori Kagawa	Osaka University	42	Toshihiro Nakaoka	Sophia University
10	Makoto Negoro	Osaka University	43	Tetsuo Koder	Tokyo Institute of Technology
11	Takeji Takui	Osaka City University	44	Yasuaki Masumoto	University of Tsukuba
12	Kazunobu Satoh	Osaka City University	45	Yasuhiro Utsumi	Mie University
13	Kazuo Toyota	Osaka City University	46	Rodney Van Meter	Keio University
14	Shigeaki Nakazawa	Osaka City University	47	Norikazu Mizuochi	Osaka University
15	Kenji Sugisaki	Osaka City University	48	Hiroki Morishita	Osaka University
16	Yuki Kanzaki	Osaka City University	49	Toshiyuki Tashima	Osaka University
17	Lapasar Elham Hosseini	Osaka City University	50	Takaaki Shimooka	Osaka University
18	Kohji Maruyama	Osaka City University	51	Yu Doi	Osaka University
19	Ayaka Tanaka	Osaka City University			

20	Satoru Yamamoto	Osaka City University	52	Satoshi Kobayashi	Osaka University
21	Takeshi Yamane	Osaka City University	53	Takahiro Fukui	Osaka University
22	Kazuhiro Ohkubo	Osaka City University	54	Kazuhiko Misawa	Tokyo University of Agriculture and Technology
23	Yoshiro Takahashi	Kyoto University	55	Franco Nori	RIKEN
24	Ryuta Yamamoto	Kyoto University	56	Yukihiro Ohta	RIKEN
25	Yujiro Eto	Gakushuin University	57	Natsuko Ishida	RIKEN
26	Hidekatsu Tokita	Gakushuin University	58	Jaw-Shen Tsai	RIKEN
27	Tetsuya Mukai	NTT Basic Research Laboratories	59	Zhirong Lin	RIKEN
28	Shinji Urabe	Osaka University	60	Zhihui Peng	RIKEN
29	Utako Tanaka	Osaka University	61	Tsuyoshi Yamamoto	RIKEN
30	Kenji Toyoda	Osaka University	62	Oleg Astafiev	RIKEN
31	Atsushi Noguchi	Osaka University	63	Kunihiro Inomata	RIKEN
32	Kenta Matsui	Osaka University	64	Pierre Billangeon	RIKEN
33	Shigeki Takeuchi	Hokkaido University	65	Fumiki Yoshihara	RIKEN