

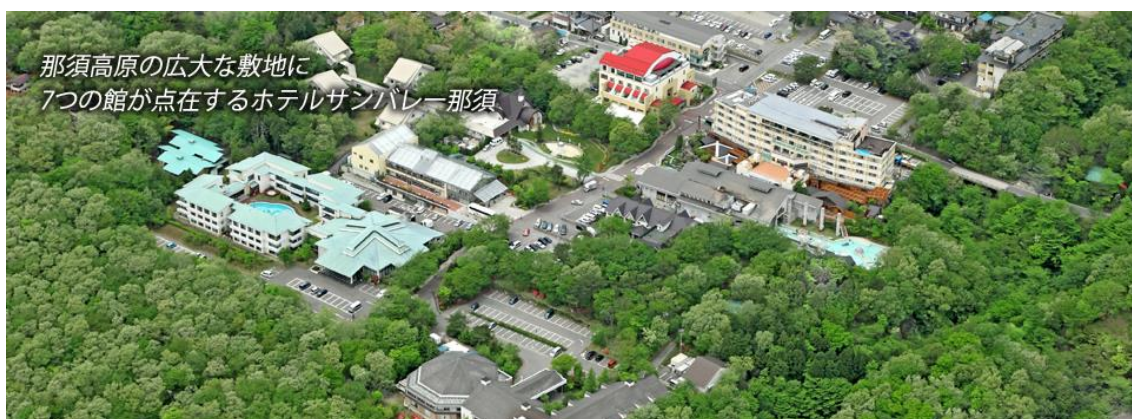
*4<sup>th</sup> Summer School on  
Semiconductor/Superconducting Quantum  
Coherence Effects and Quantum Information*

半導体量子効果と量子情報の夏期研修会

(2014年9月5日版)

2014年9月11日 - 9月13日

 ホテルサンバレー那須



**11<sup>th</sup> Sep. (Thu)**

Presentation		NAME
No.	Time	

	12:50-13:00	Opening (S. Amaha)
Lec-1	13:00-13:50	<b>(quantum simulator)</b> <b>M. Imada (Tokyo)</b>
O-01	13:50-14:20	M. Delbecq (RIKEN)
	14:20-14:40	Coffee Break
Lec-2	14:40-15:30	<b>(ferro/supper)</b> <b>T. Yokoyama (TIT)</b>
O-02	15:30-15:50	S. Baba (Tokyo)
	15:50-16:10	Coffee Break
O-03	16:10-16:40	Y. Tokura (Tsukuba)
O-04	16:40-17:10	J. Chen (TIT)
O-05	17:10-17:30	K. Yoshizumi (Tohoku)
	17:30-17:50	Coffee Break
O-06	17:50-18:10	Y. Shimazaki (Tokyo)
O-07	18:10-18:40	W. Izumida (Tohoku)
Workshop Dinner 19:00-		

**12<sup>th</sup> Sep. (Fri)**


Presentation		NAME
No	Time	


Lec-3	8:40-9:30	<b>(spin (i))</b> <b>Y. Niimi (Tokyo)</b>
O-08	9:30-10:00	H. Saarikoski (RIKEN)
O-09	10:00-10:30	K. Hashimoto (Tohoku)
	10:30-10:50	Coffee Break
O-10	10:50-11:20	<b>(Majorana)</b> A. Ueda (Tsukuba)
Lec-4	11:20-12:10	<b>D. Loss (RIKEN)</b>
[Free Discussion Time] (12:10-19:00)		
Dinner (Please help yourselves)		
Poster (19:30-21:00)		
Discussion Time (21:00--22:00) @ 1 <sup>st</sup> floor Forest Vila		


13<sup>th</sup> Sep. (Sat)

Presentation		NAME
No.	Time	

O-11	8:40-9:10	(spin qubits) P. Stano (RIKEN)
O-12	9:10-9:30	T. Otsuka (RIKEN)
O-13	9:30-9:50	K. Takeda (Tokyo)
	9:50-10:10	Coffee Break
Lec-5	10:10-11:00	(spin (ii)) <b>Y. Nakamura (Tokyo)</b>
O-14	11:00-11:20	F. Nagasawa (Tohoku)
O-16	11:20-11:50	M.H. Fauzi (Tohoku)
	11:50-12:00	Closing (S. Tarucha)

 50min

 30min

 20min

**September 13<sup>th</sup> (2014)**

*Spin qubits*

**O-11:** (8:40-9:10)

*Photon Assisted Co-Tunneling in Quantum Dot Spin Qubits*

**P. Stano (Quantum System Theory Research Team, CEMS, RIKEN)**

**O-12:** (9:10-9:30)

*Experimental Study of Spin Qubits in Triple Quantum Dot*

**T. Otsuka (Quantum Functional System Research Group, CEMS, RIKEN)**

**O-13:** (9:30-9:50)

*Electrically driven single-electron spin resonance in a Si/SiGe double quantum dot with a micromagnet*

**K. Takeda (Dep. of Phys, Univ. Tokyo, Tarucha-Lab, Quantum Functional System Research Group, CEMS, RIKEN)**

Coffee Break (9:50-10:10)

*Spin effects (II)*

**Lec-5:** (10:10-11:00)

*Quantum control of magnons in ferromagnetic crystal*

**Y. Nakamura (Univ. Tokyo, Superconducting Quantum Electronics Research Team, CEMS, RIKEN)**

**O-14:** (11:00-11:20)

*Anisotropic Aharonov-Casher effect in competition between Rashba and Dresselhaus spin-orbit coupling*

**F. Nagasawa (Tohoku Univ., Nitta-Lab)**

**O-15:** (11:20-11:50)

*Non-linear transport in triple gate quantum point contact structures*

**M.H. Fauzi (Department of Physics, Univ. Tohoku, Hirayama-Lab)**