RIKEN/LUND/HARVARD International Joint Symposium on Nanoengineering and Functional Materials

Date: November 16th, 17th, 2009

Place: Ohkochi Hall, RIKEN, Wako Campus

Program	
16^{th}	
Chair: Koji Ishi	bashi (RIKEN)
10:00-10:10:	Opening Address
	Kohei Tamao (Director of ASI, RIKEN)
10:00-10:20:	Welcome Address
	Yoshiharu Doi (Executive Director, RIKEN)
10:20-10:50:	Robert Westervelt (Harvard)
	"Imaging Universal Conductance Fluctuations in Graphene"
10:50-11:20:	Maki Kawai (RIKEN)
	"Single molecule spectroscopy using STM"
11:20-11:50:	Marco Loncar (Harvard)
	"Optical Nanostructures for Advanced Communication Systems"
11:50-12:20:	Peter Samuelson (Lund)
	"Entanglement at finite temperatures in the electronic two-particle
	interferometer"
12:20-13:40:	Lunch and Lab.tour
Chair: Tamotsu	Zako (RIKEN)
13:40-14:10	Kazuo Hosokawa (RIKEN)
	"Microfluidic bioanalytical devices for point-of-care diagnosis"
14:10-14:40	Christelle Prinz (Lund)
	"Semiconductor nanowires in biology"
14:40-15:10	Erik Heller (Harvard)
	"Imaging electron transport in 2DEGS and graphene"
15:10-15:40	Mike Stopa (Harvard)
	"Feedback between nuclear spin inhomogeneity and electron states in
	a double dot"

15:40-16:10 Break

Chair: Amir Yacoby (Harvard)

16:10-16:40	Akira Furusaki (RIKEN)
	"Asymmetric zero-bias anomaly for strongly interacting electrons in
	one dimension"
16:40-17:10	Keiji Ono (RIKEN)
	"Spin dependent transport in g-factor-modulated quantum dots"
17:10-17:40:	Franco Nori (RIKEN)
	"Atomic physics and quantum optics using circuits: a brief overview of
	superconducting qubits"

18:00-19:30

Reception at Hirosawa Club (RIKEN)

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Chair: Hongqi	Xu	(Lund)
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Chan' Hongqi Xu (Lunu)		
9:30-10:00:	Knut Deppert (Lund)	
	"Control of morphology and internal structure of epitaxial III-V	
	nanowire structures"	
10:00-10:30:	Evelyn Hu (Harvard)	
	"Single quantum dot-photonic crystal cavity: strong coupling and	
	cavity feeding"	
10:30-11:00:	Takuo Tanaka (RIKEN)	
	"Plasmonic metamaterials: their properties, fabrication technique,	
	and applications"	
11:00-11:30:	Heiner Linke (Lund)	
	"Thermoelectric effects in heterostructure nanowires"	
11:30-12:00:	Leslie Vogt (Harvard)	
	"Finding Organic Semiconductor and Photovoltaic Materials Using	
	Distributed Computing"	

12:00-13:00: Lunch

Chair: Keiji Ono (RIKEN)

13:00-13:30:	Naoto Nagaosa (RIKEN/Tokyo)
	"Spin Hall effect in semiconductors, insulators, and superconductors"
13:30-14:00:	Hongqi Xu (Lund)
	"Giant g-factors, Kondo physics, and anomalous spin-correlated
	blockade in few-electron InSb nanowire quantum dots"
14:00-14:30:	Masashi Kawasaki (RIKEN/Tohoku)
	"Quantum phenomena at gated oxide-interfaces"
14:30-15:00:	Amir Yacoby (Harvard)
	"Broken Symmetry States and Divergent Resistance in Suspended
	Bilayer Graphene"

15:00-15:30: Break

Chair: Mike Stopa (Harvard)

15:30-16:00:	Lars Samuelson (Lund)
	"Semiconductor nanowires for nanoelectronic and nanophotonic
	devices"
16:00-16:30:	Yoshi Tokura (RIKEN/Tokyo)
	"Dynamical magnetoelectric effects in multiferroics"
16:30-17:00:	Koji Ishibashi (RIKEN)
	"Carbon nanotube quantum dots and molecular-scale nanostructures"
17:00-17:20:	Closing Remark
	Robert Westervelt and Lars Samuelson

17:30- Ad hoc meeting with food and drink at Ikebukuro (move by bus)

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