A3 Foresight Summer School and Workshop

Aug. 29, 2009 ~ Sep. 2, 2009 Hill House, Yangpyeong, KOREA

Aug. 29 (Sat.)

19:30 ~	Welcome reception
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Aug. 30 (Sun) Summer School on SPM Instrumentation

9:20 ~ 9:30	Opening and Preview	Young Kuk	
9:30 ~ 12:20	Session1. STM Instrumentations		
	Session chair:		
9:30 ~ 11:00	STM Instrumentation I:	Young Kuk	
	Electronics, Hardware, Software	Seoul Nat'l University	
11:00 ~ 11:20	Break		
11:20 ~ 12:20	STM Instrumentation II:	Xi Chen	
	Cryogenic STM	Tsinghua University	
12:20 ~ 14:00	Lunch break		
14:00 ~ 17:40	Session 2. AFM Instrumentations		
	Session chair:		
14:00 ~ 15:00	AFM Instrumentation I: Review	Yongho Seo	
		Sejong University	
15:00 ~ 15:20	Break		
15:20 ~ 16:20	AFM Instrumentation II:	Yukio Hasegawa	
	Dynamic AFM	The University of Tokyo	
16:20 ~ 16:40	Break		
16:40 ~ 17:40	AFM Instrumentation III:	Zee Hwan Kim	
	NSOM	Korea University	
18:30 ~	Banquet		

9:00 ~ 10:30	Session I. Session chair:		
9:00 ~ 9:15	Oxidation of Ultrathin Bismuth Films	Feng Pan	
9:15 ~ 9:30	Superconductivity on Nb/Si(111)System :Scanning tunnelingmicroscopy andspectroscopy study	Sangjun Jeon	
9:30 ~ 9:45	STM studies of monovalent adsorbates on 2D metallic Si surfaces	F. Nakamura	
9:45 ~ 10:00	Preparation of atomically flat TiO ₂ (110) substrate	Ryota Shimizu	
10:00 ~ 10:15	ConformationManipulationofSingleMetalloporphyrinMoleculesonCu(111)byScanning TunnelingMicroscopeTip	Jong Keon Yoon	
10:15 ~ 10:30	Mott insulating ground state and metallization/localization induced by carrier doping on a surface superstructure	T. Komorida	
10:30 ~ 10:55	Break		
10:55 ~ 12:10	Session II. Session chair:		
	Study of interaction between Rashba surface		
10:55 ~ 11:10	state and QWS by high-resolution spin- and k-resolved band mapping	Manami Ogawa	
10:55 ~ 11:10 11:10 ~ 11:25		Manami Ogawa Keun Su Kim	
	k-resolved band mapping Emergence of nearly massless hole carriers at silicon subsurface covered with a lead		
11:10 ~ 11:25	k-resolved band mapping Emergence of nearly massless hole carriers at silicon subsurface covered with a lead monolayer Atomic arrangement and electronic states of	Keun Su Kim	
11:10 ~ 11:25 11:25 ~ 11:40	k-resolved band mapping Emergence of nearly massless hole carriers at silicon subsurface covered with a lead monolayer Atomic arrangement and electronic states of Al nanowires on NaCl(100) surface In situ atomic scale investigation of crack propagation in ultra-fine grained gold thin	Keun Su Kim Satoshi Yokoya	

Aug. 31 (Mon.) A3 Workshop for students

13:30 ~ 14:30	Tutorial on Graphene	Young-Woo Son KIAS	
14:30 ~ 15:00	Break		
15:00 ~ 16:30	Session III. Session chair:		
15:00 ~ 15:15	Exciton diffusion in MgZnO nanorods using nanorod quantum structures	Jinkyung Yoo	
15:15 ~ 15:30	Enhancement of Photochemical Reaction with Near Field between Gold Particles	Tomoya Taguchi	
15:30 ~ 15:45	Fast High-Temperature Response of Carbon Nanotube Film and Its Application as an Incandescent Display	Peng Liu	
15:45 ~ 16:00	Carbon Nanotube Films fabricated by a Simple Transfer Method and Their Electrical Properties	Doo Hee Hwang	
16:00 ~ 16:15	High-Capacity Lithium Storage in Silicon Nanowire Array Films as Anodes for Lithium- Ion Batteries	Rui Huang	
16:15 ~ 16:30	Logic Circuits from One-Dimensional Nanoscale Building Blocks with Adjustment of Operation Voltage	Gunho Jo	
16:30 ~ 17:00	Break		
17:00 ~ 18:00	Session IV. Session chair:		
17:00 ~ 17:15	Nanoscale <i>p</i> - <i>n</i> junctions investigated by local probes	Cheol-Joo Kim	
17:15 ~ 17:30	The research of nano dewetting process by SPM methods	Qiang Fu	
17:30 ~ 17:45	Nanometer-scale four-point probe resistance measurements of nanowires using carbon nanotube tips	T. Tono	
17:45 ~ 18:00	ScanningGateMicroscopeStudyonGraphene Device	Jungseok Chae	
18:00 ~	Dinner		