Please watch out for program change concerning poster sessions as updated on February 26, 2007!!

International Winterschool on

"Electronic Properties of Novel Materials: Molecular Nanostructures" Kirchberg/Tirol

10.03.2007 - 17.3. 2007

Tentative program

SA 10.03. Evening

17:00 Check in for IWEPNM2007

21:00 Welcome, with Bürgermeister of Kirchberg

SU 11.03. Morning: Quantum Information, Spin Resonance

08:30 MEHRING (DE,60)

Principles of quantum computing

09:30 ARDÁVAN (ÚK,30)

Manipulation of quantum information in N@C60

10:00 Coffee break

10:30 HARNEIT (DE,30)

Progress in N@C60 quantum computing

11:00 SIMON (HU,30)

Magnetic resonance in carbon nanotubes

11:30 CORZILIUS (DE,30),

Probing the electronic properties of bulk samples SWNT by resonant and non-resonant microwave absorption

Afternoon: Miniworkshops

17:00-18:30 Dinner

Evening: Optics & Spectroscopy

18:30 HEINZ (US,30)

Optical spectroscopy of Individual single-walled carbon nanotubes

19:00 CAPAZ (BR,30)

Excitons in carbon nanotubes: insights from model calculations

19:30 MARUYAMA (JP,30),

Growth and optical properties of small-bundled vertically aligned single-walled carbon nanotubes

20:00 WOLF (DE,30)

Electron-phonon interaction in low-dimensional solids probed with time-resolved spectroscopy

MO 12.03. Morning: Functionalization

08:30 LEE (KR,30)

Tailoring electronic structures of carbon nanotubes

09:00 BURGHARD (DE,30)

Electrochemically functionalized carbon nanotubes

09:30 SCALIA (DE,30)

Carbon nanotubes in liquid crystals as versatile, functional materials

10:00 Coffee break

10:30 ENDO (JP,30),

Chemical doping effect on double walled carbon nanotubes

11:00 ZETTL (US,30)

11:30	Thermal and electromechanical studies of nanotubes HENNRICH (DE,30) Separation techniques for single-walled carbon nanotubes
4 17:00-	Afternoon: Miniworkshops 18:30 Dinner
18:30	Evening: Raman MAULTZSCH (US,30)
19:00	Fano lineshape in the high-energy modes of metallic carbon nanotubes POPOV (BG,30)
19:30	
20:00	Raman spectroscopy of well-identified single-walled carbon nanotubes DOORN (US,30),
20:30	Raman studies of exciton-phonon coupling in single walled carbon nanotubes: quantitation of bundled vs. isolated behavior JORIO (BR,30)
	The importance of excitons for the intensity of the radial breathing mode and the disorder induced band in single wall carbon nanotubes
TU 13 . 08:30	.03. Morning: Nanowires SAMUELSON (SE,60)
	Growth, properties and applications of semiconductor nanowires W. WEBER (DE,30)
	Silicon nanowire transistorswith axially intruded nickel silicide contacts Coffee break
10:30	PRINZ (RU,30),
11:00	Molecularly and atomically thin semiconductor and carbon nanoshells BAKKERS (NL,30)
11:30	VLS nanowire growth dynamics PATTERSON (IR,30), Role of materials in emerging nanoelectronic devices
17:00-	Afternoon: Miniworkshops 18:30 Dinner
18:30	Evening: Applications GRUNER (US,30)
	Carbon for printed electronics BAUGHMAN (US,30)
	From Electrical to Fuel Powered Artificial Muscles VOETZ (DE,30), Industrial production of multiwalled carbon nanotubes
	Welcome address of Hotel by Dr. Taus, poster reading Boster on

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WE 14.03. Morning: Graphene & Graphite 08:30 NOVOSELOV (UK,60), QED in a pencil trace 09:30 McCANN (UK,30) Asymmetry gap in the electronic band structure of bilayer graphene 10:00 Coffee break 10:30 ROTENBERG (US,30) The spectral function of monolayer graphene films 11:00 JARILLO-HERRERO (US,30)

11:30	Transport Measurements in Graphene MORPURGO (NL,30) Bipolar Supercurrent in Graphene
	Afternoon: Miniworkshops 18:30 Dinner
18:30	Evening: Graphene & Graphite FERRARI (UK,30)
19:00	Raman spectroscopy of pristine and doped graphene LAZZERI (FR,30),
10.30	Non-adiabatic Kohn-anomaly in a doped graphene monolayer GRUENEIS (DE,30)
19.50	Low energy electronic structure of graphite by angle resolved photoemission spectroscopy
	Poster ptu
	.03. Morning: Nanotube Growth HOFMANN (US,30)
	In-situ observations of catalyst dynamics during surface-bound carbon nanotube nucleation IIJIMA (JP,30)
	Science and technology of single-walled carbon nanotubes GEOHEGAN (US,30)
	In situ time-resolved measurements of carbon nanotube and nanohorn growth Coffee Break
10:30	PFEIFFER (AT,30),
	Growth mechanisms of innershell tubes in double-walled carbon nanotubes KATAURA (JP,30)
	Filling up metallic valley on photoluminescence map by organic Molecules encapsulated in single-wall carbon nanotubes CALAME (NL,30) From individual molecular junctions to networks
17:00-	Afternoon: Miniworkshops 18:30 Dinner
18:30	Evening: Noncarbon Nanotubes LOISEAU (FR,30)
19:00	Luminescence properties of boron nitride nanotubes RUBIO-SECADES (ES,30)
19:30	Optical properties of graphite, h-BN and nanotubes: coherent excitations GADERMAIER (SI,30),
17.50	Equilibrium and non-equilibrium optical properties of MoSI nanowires
	Poster pth
FR 16 08:30	.3. Morning: Transport APPENZELLER (US,30)
	Carbon nanotube field-effect transistors as tunneling devices CHEN (US,30)
	Graphene ribbon electronics
	RAQUET (FR,30), Aharonov-Bohm conductance modulation in ballistic carbon nanotubes
10:00	Coffee break
10:30	KAISER (NS,30) Changes in electronic transport in carbon nanotube networks with thickness and chemical

treatment 11:00 VD ZANT (NL,30) Coupling electronic transport to vibrational modes in suspended nanotube resonators 11:30 CLEUZIOU (FR,30)

Carbon nanotube superconducting quantum interference device

Afternoon: Miniworkshops

Evening: Nanomaterials

17:00 H. WEBER (DE,30)

Charge transport across single-molecule junctions

17:30 FILORAMO (,30),

Self-assembly of carbon nanotubes by bio-directed approach

18:00 RICHERT (DE,30),

DNA-carbon nanotube interactions and nanostructuring based on DNA

18:30 PICHLER (DE,30)

Summary

20:30 Bauernbuffet, fare well

SA 17.3. Departure

Update 02.03..2007