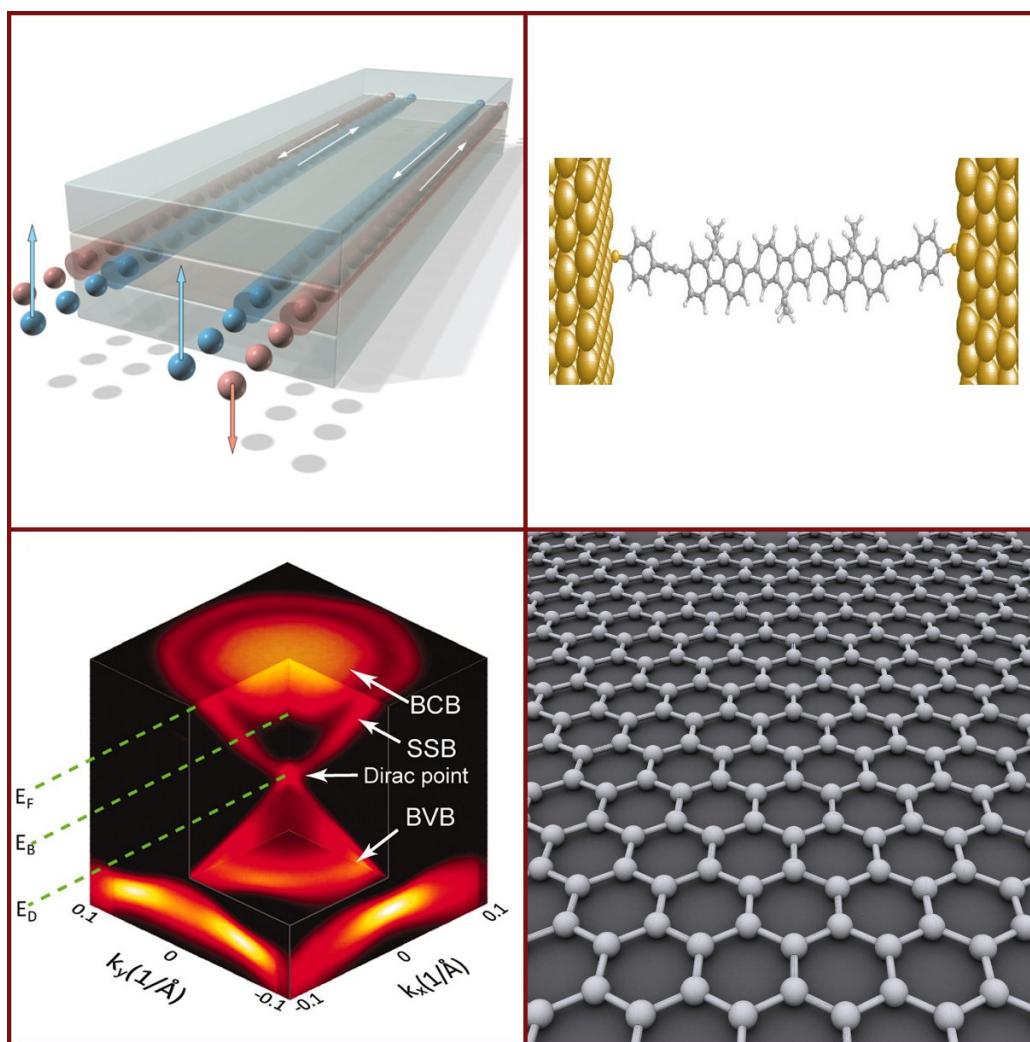


Annual network meeting and thematic workshop

Nanoelectronics beyond the roadmap

June 2011 - Keszthely, Lake Balaton, Hungary



Program of the Conference

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	
07:30		Breakfast					
09:00		Halbritter	Buhmann	Beenakker	DiCarlo		
10:00		Discussion	Discussion	Discussion	Discussion		
10:30		Coffee break	Coffee break	Coffee break	Coffee break		
11:00		Burkard	Brinkman	Bachtold	Portier		
12:00		Discussion	Discussion	Discussion	Discussion		
12:30		Lunch & Siesta	Lunch & Siesta	Cheianov	Lunch & Siesta		
13:30				Discussion			
14:00				Lunch			
16:00		Registration	Sassetti	Pichard	Excursion		Kotetes
16:30			Cavaliere	Raimondi			Gorini
16:45			Bailey	Intronati			Michelsen
17:00			Coffee break	Coffee break			López-Monís
17:15	Delplace		Csonka	School		Coffee break	
17:30							
17:45						Grace	Palyi
18:00						Cserti	Golubev
18:15						Break	Break
18:30						Jin	Tudorovskiy
19:00	Welcome party	Leppäkangas	Medvedyeva	Banquet			
19:15		André	Ochoa				
20:00			Poster session				
					School / Departures		

## June 12th, Sunday

**16:00-19:00**      Registration

**19:00-22:00**      Welcome party

## June 13th, Monday

07:30-09:00 Breakfast

### Morning session - Invited talks

09:00-10:00 **András Halbritter**  
*Electron transport in single-molecule junctions*

10:00-10:30 Discussion

10:30-11:00 Coffee break

11:00-12:00 **Guido Burkard**  
*Spin and valley control in semiconductor and carbon quantum dots*

12:00-12:30 Discussion

12:30-16:00 Lunch  
Siesta

### Afternoon session

16:00-16:30 **Maura Sassetti**  
*Local Franck-Condon factors in suspended carbon nanotubes quantum dots*

16:30-16:45 **Fabio Cavaliere**  
*Vibronic coherence effects of a nanoelectromechanical system*

16:45-17:00 **Steven Bailey**  
*A Theoretical Study of Anthracene and Pyrene Derivatives Adsorbed onto Graphene.*

17:00-17:15 Coffee break

17:15-17:45 **Pierre Delplace**  
*The Zak phase and the edge states in graphene.*

17:45-18:00 **Iain Grace**  
*Identifying Diversity in Molecular Junctions*

18:00-18:15 **József Cserti**  
*Relation between Zitterbewegung and the optical conductivity*

18:15-18:30 Break

18:30-19:00 **Peiqing Jin**  
*Lasing and Transport in a Quantum Dot-Resonator System*

19:00-19:15 **Juha Leppäkangas**  
*Non-equilibrium quasiparticles in superconducting qubits*

19:15-19:30 **Stephan André**  
*Spectral properties of Josephson bifurcation amplifiers*

## June 14th, Tuesday

07:30-09:00 Breakfast

### Morning session - Invited talks

09:00-10:00 **Hartmut Buhmann**  
*HgTe quantum well as a topological insulator*

10:00-10:30 Discussion

10:30-11:00 Coffee break

11:00-12:00 **Alexander Brinkman**  
*Coupling superconductors to topological insulators*

12:00-12:30 Discussion

12:30-16:00 Lunch  
Siesta

### Afternoon session

16:00-16:30 **Jean-Louis Pichard**  
*Thermal Enhancement of Interference Effects in Quantum Point Contacts*

16:30-16:45 **Roberto Raimondi**  
*Extrinsic versus intrinsic spin-orbit interaction: a  $SU(2)$ -formulation*

16:45-17:00 **Guido Intronati**  
*Spin relaxation near the metal-insulator transition: dominance of the Dresselhaus spin-orbit coupling*

17:00-17:15 Coffee break

17:15-17:45 **Szabolcs Csonka**  
*InAs nanowire based cooper pair splitter*

17:45-18:00 **Andras Palyi**  
*Disorder-mediated electron valley resonance in carbon nanotube quantum dots*

18:00-18:15 **Dmitry Golubev**  
*Bidirectional Single-Electron Counting and the Fluctuation Theorem*

18:15-18:30 Break

18:30-19:00 **Timur Tudorovskiy**  
*Chiral tunneling in single and bilayer graphene*

19:00-19:15 **Mariya Medvedyeva**  
*Hartman effect and spin precession in graphene*

19:15-19:30 **Hector Ochoa**  
*Spin-orbit coupling and spin relaxation times in  $sp^3$ -like distorted graphene*

20:00-22:00 Poster session

## June 15th, Wednesday

07:30-09:00 Breakfast

### Morning session - Invited talks

09:00-10:00 **Carlo Beenakker**  
*Scattering theory of topological superconductors*

10:00-10:30 Discussion

10:30-11:00 Coffee break

11:00-12:00 **Adrian Bachtold**  
*Electromechanical resonators made from nanotubes and graphene*

12:00-12:30 Discussion

12:30-13:30 **Vadim Cheianov**  
*Statistical mechanics of adsorbents on graphene*

13:30-14:00 Discussion

14:00-16:00 Lunch

16:00-22:00 Excursion

## June 16th, Thursday

07:30-09:00 Breakfast

### Morning session - Invited talks

09:00-10:00 **Leo DiCarlo**  
*Robust superconducting circuits for quantum computing*

10:00-10:30 Discussion

10:30-11:00 Coffee break

11:00-12:00 **Fabien Portier**  
*The bright side of Coulomb blockade*

12:00-12:30 Discussion

12:30-16:00 Lunch  
Siesta

### Afternoon session

16:00-16:30 **PANAGIOTIS Kotetes**  
*Berry Phase Mediated Anomalous Thermoelectric and Magnetic Response in 2D Topological Insulators*

16:30-16:45 **Cosimo Gorini**  
*Spin-charge locking and tunneling into a helical metal*

16:45-17:00 **Jens Michelsen**  
*Superconducting Proximity Effect and Majorana Bound States in Spin-Orbit Coupled Semiconductors*

17:00-17:15 **Carlos López-Monís**  
*Dynamical nuclear spin polarization induced by electronic current through double quantum dots*

17:15-17:30 Coffee break

17:30-19:30 School on Transport Simulations

20:00-23:00 Banquet

## June 17th, Friday

**07:30-09:00** Breakfast

Morning session - Invited talks

**09:00-12:30** School on Transport Simulations