Programme

Week 1 (10-14 July, 2006)

	10 (M)	11 (Tu)	12 (W)	13 (Th)	14 (F)	15/16
9:00	registration	**Shekhter 1**	**Ivanov 1**	**Cheianov 1**	**Efros 1**	
10:00	opening (10:15-10:30)	**Shekhter 2**	**Ivanov 2**	**Cheianov 2**	**Efros 2**	
11:00	10:30 **MacDonald 1**	coffee	coffee	coffee	coffee	
11:30	**MacDonald 2**	**MacDonald 3**	**Imamoglu 3**	**Shekhter 3**	**Ivanov 3**	
12:30	lunch	lunch	lunch	lunch	lunch	
14:00	registration	discussions	discussions	poster talks	discussions	
16:30	coffee	coffee	coffee		coffee	free days
17:00	**Imamoglu 1**	**Ardavan 1**	**Roukes 1**	posters	**Kastner 1**	
18:00	**Imamoglu 2**	**Ardavan 2**	**Roukes 2**		**Kastner 2**	
19:00	dinner	dinner	dinner	dinner	conference dinner (bus at 19:15)	
20:30						

Week 2 (17-21 July, 2006)

	17 (M)	18 (Tu)	19 (W)	20 (Th)	21 (F)	22 (Sat)
9:00	**Lerner 1**	**Loss 1**	**Littlewood 1**	**Shlyapnikov 1**	**Altshuler 1**	departure
10:00	**Lerner 2**	**Loss 2**	**Littlewood 2**	**Shlyapnikov 2**	**Altshuler 2**	
11:00	coffee	coffee	coffee	coffee	coffee	
11:30	**Cheianov 3**	**Cheianov 4**	**Langedijk 1**	**Lerner 3**	**Shlyapnikov 3**	
12:30	lunch	lunch	lunch	lunch	lunch	
14:00	discussions	discussions	discussions	discussions	discussions	
16:30	coffee	coffee	coffee	coffee	coffee	
17:00	**Falko 1**	**Turberfield 1**	**Geim 1**	**Lagendijk 2**	**Marcus 1**	
18:00	**Falko 2**	**Turberfield 2**	**Geim 2**	**Lagendijk 3**	**Marcus 2**	
19:00	dinner	dinner	dinner	dinner	closing reception	
20:30						

Lecture: 50 mins, plus 5 mins questions, and 5-mins break between two lectures in a pair.
On 10 July, the first lecture by A. MacDonald starts at 10:30.

On 13 July, 14:00-17:00, attendees will give short talks (3mins, 2 slides) advertising their posters.

The conference dinner will take place on 14 July, in the agriturismo Mezzaluna near Sistiana. Bus departs from Adriatico at 19:15. The conf. dinner fee, 25Euro/person should be payable upon registration.

Lectures

B. Altshuler (Columbia U, NY) - (1&2) *Adiabatic and non-adiabatic dynamics of quantum condensates*

A. Ardavan (Oxford) - (1) *An introduction to magnetic resonance in quantum information processing*
(2) *Endohedral fullerenes and electron spin resonance quantum information processing*

V. Cheianov (Lancaster) - (1-3) *Kondo effect, Luttinger liquid and bosonisation technique*
(4) *Friedel oscillations in graphene*

A. Efros (Utah) - (1&2) *Optical properties of materials with negative refraction: Perfect lenses and cloaking*

V. Falko (Lancaster) - (1&2) *Quantum transport of chiral electrons in graphene*

A. Geim (Manchester) - (1&2) *Physics of graphene*

A. Imamoglu (Zurich) - (1) *Quantum optics with quantum dots: elementary properties, photon correlation measurements, single photon sources*
(2) *Cavity-QED with quantum dots in photonic crystal cavities*
(3) *Quantum dot spin manipulation*

A. Ivanov (Cardiff) - *Statistically-degenerate indirect excitons in coupled quantum wells*
(1) *Thermalization and optical decay*
(2) *Diffusion and photoluminescence rings*
(3) *In-plane traps and extremely low temperatures*

M. Kastner (MIT, Boston) - (1) *Introduction to the physics of semiconductor quantum dots*
(2) *Electron correlations in single-electron transistors*

A. Lagendijk (Twente) - (1) *Photonic crystals: without and with imperfections*
(2) *Multiple light scattering in mesoscopic and nano-systems*
(3) *Quantum optics and multiple scattering*

I. Lerner (Birmingham) - (1-3) *Decoherence and relaxation in qubits: a challenge for experimentalists, a puzzle for theorists*

P. Littlewood (Cambridge) (1&2) *Excitonic and polaritonic condensates*

D. Loss (Basel) - (1&2) *Spin qubits and spin decoherence in single and double quantum dots*

A. MacDonald (Austin) (1-3) *Introduction to Spintronics*

C.Marcus (Harvard) - (1&2) *Mesoscopic quantum dots and spin qubits*

M. Roukes (Caltech) - (1&2) *Physics, engineering & applications of nano-electro-mechanical systems and quantum electro-mechanical systems*

R. Shekhter (Chalmers) - (1-3) *Theory of electromechanical shuttles*

G. Shlyapnikov (Orsay) - (1) *Strongly interacting Fermi gases. From few-body to many-body physics*
(2) *Strongly interacting mixtures of heavy and light fermions*
(3) *Supersolid states in quantum gases*

A. Turberfield (Oxford) - (1) *Nanofabrication by biomolecular self-assembly*
(2) *Self-assembled nanomachines*