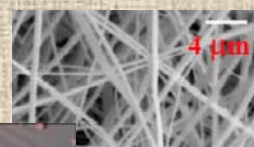




Interuniversity Attraction Poles – Phase VI 2007-2011 P6/42: Quantum Effects in Clusters and Nanowires



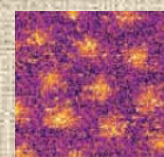
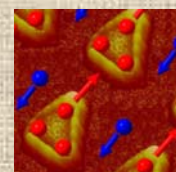
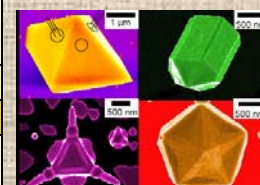
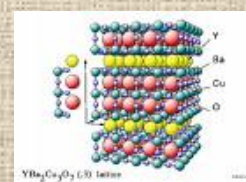
Workshop

Nanoscale and multi-band superconductivity

Universiteit Antwerpen, 15 July 2010

Program

9:30-10:00	Arrival and coffee
	Session I: Vortices in multiband superconductors (chair F. Peeters)
10:00-10:30	Victor MOSHCHALCOV, Katholieke Universiteit Leuven <i>Type-1.5 superconductivity</i>
10:30-10:55	Lucia KOMENDOVA, Universiteit Antwerpen <i>Vortex states in two-band bulk and thin-film superconductors</i>
10:55-11:20	Vu-Hung DAO, Katholieke Universiteit Leuven <i>Prediction of unusual properties for the vortex state in type-1.5 superconductors</i>
11:20-11:40	Coffee break
	Session II: Transport in superconducting nanostructures (chair A. Silhanek)
11:40-12:10	Denis VODOLAZOV, Institute for Physics of Microstructures, Nizhny Novgorod, Russia <i>Reversal of nonlocal vortex motion in the regime of strong nonequilibrium</i>
12:10-12:35	Sébastien ADAM, Université Catholique de Louvain <i>Discontinuous propagation of stabilized normal hotspots in superconducting NbN multicontacts nanostrips</i>
12:35-13:30	Lunch
	Session III: Superconductivity on nanoscale (chair A. Shanenko)
13:30-14:00	Rolando SANIZ, Universiteit Antwerpen <i>Multigap superconductivity and condensate entanglement in nanoscale superconductors</i>
14:00-14:25	Ken HAENEN, Universiteit Hasselt <i>Growth, transport and superconducting properties of thin B-doped nanocrystalline CVD diamond films</i>
14:25-14:50	Jo CUPPENS, Katholieke Universiteit Leuven <i>Superconductivity in Pb cluster assembled systems with different degrees of coagulation</i>
14:50-15:10	Coffee break
	Session IV: Hybrid nanostructures (chair M. Milosevic)
15:10-15:40	Boldizsar JANKO, University of Notre Dame, USA <i>Quantum pendulum in magnetically nanostructured superconductors</i>
15:40-16:05	Sébastien COUET, Instituut voor Kern-en Stralingsfysica, Katholieke Universiteit Leuven <i>Nuclear resonant scattering applied to ferromagnet/superconductor hybrids</i>
	Closing remarks and further discussions



Venue

Hof van Liere, Stadscampus UA,
Prinsstraat 13b, Antwerpen

Parking Venusstraat

(entrance badge needed, please
consult map on www.cmt.ua.ac.be/iap6)

Organization

Milorad Milosevic (Universiteit Antwerpen)

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