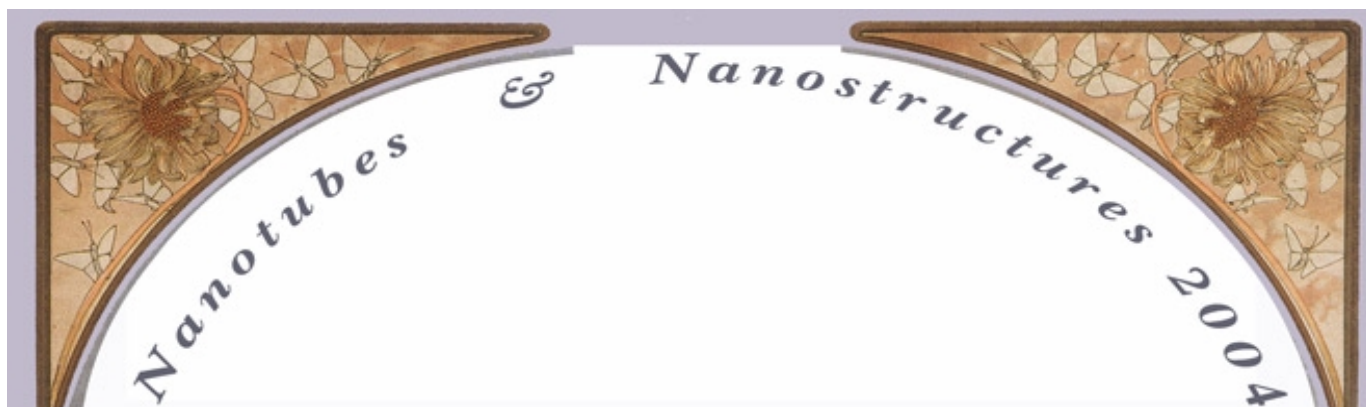


Thursday 14 October

Chair: M. Cini

8.30–10.00	<i>Registration</i>	
10.00–10.10	<i>Opening address</i>	
10.10–11.00	<i>Physics of free metal nanowires</i>	<i>(E. Tosatti)</i>
11.00–11.40	<i>Coffee</i>	
11.40–12.30	<i>Transport and superconductivity in condensed matter</i>	<i>(C. Noce)</i>
12.30–13.20	<i>Strongly correlated superconductivity near singlet mott insulators orbitally degenerate molecular conductors</i>	<i>(E. Tosatti)</i>
13.20–14.40	<i>Lunch</i>	
14.40–15.30	<i>Superconductivity in condensed matter systems</i>	<i>(C. Di Castro)</i>
15.30–16.00	<i>Competition of single-electron and pair hopping in strongly correlated transistor models</i>	<i>(E. Perfetto)</i>
16.00–16.40	<i>Coffee</i>	
16.40–17.30	<i>Electronic spectrum and tunneling properties of MWNT</i>	<i>(A. Varlamov)</i>
17.30–18.00	<i>Time-dependent quantum transport within Density Functional Theory</i>	<i>(G. Stefanucci)</i>
19.00	<i>Welcome Party (Hotel Villa Mercedes)</i>	



Friday 15 October

Chair: A. Marchetti

- 9.10–10.00 *Synthesis and properties of long chains of SP-hybridized carbon atoms: polyynes* (F. Cataldo)
- 10.00–10.50 *Optimization of the synthesis of carbon nanotubes using the arc discharge method* (F. Mancia)
- 10.50–11.30 **Coffee**
- 11.30–12.20 *Mixed finite element-tight binding technique for studying the electromechanical behavior of single and multiwall carbon nanotubes* (A. Pantano)
- 12.20–13.10 *Strength of nanostructures* (N. Pugno)
- 13.10–14.40 **Lunch**
- 14.40–17.30 **Poster Session**

Development of technologies for the detection of NBC aggressive

(D. Caon, Aero Sekur S.P.A.)

Studies on electrocatalysis in Europium(II) reduction on carbon nanotubes film electrode by voltammetry and electrochemical impedance spectroscopy

(Shengshui Hu)

Synthesis,, structure and magnetic properties of porous magnetic materials, prepared by incorporation of Fe₃O₄ nanoparticles in MCM-41

(Sergey Kolotilov)

Nano indenter system

(MTS System Corporation)

A Mathematical model of SWNT growth

(Kunishige Ohgane)

The metamorphosis of heterometallic trinuclear antiferromagnetic complexes into nano-sized superparamagnetic spinels

(Vitaly Pavlishchuk)

A theoretical study of boron nanoclusters

(R. Pandey)

Purification and positioning of Mo₆S₃I₆ nanowires by (di)electrophoresis

(Mihaela-Irina Ploscaru)

E-Commerce solutions

(RS)

Thermoset-clay nanocomposites for cryogenic propellant storage (L. Scatteia, CIRA)



Monday 18 October

Chair: C. Natoli

- 9.10–10.00 *Physics and applications of Carbon Nanotubes and Semiconducting Nanostructures* (S. Bellucci)
- 10.00–10.50 *Coherent bremsstrahlung and electron-positron pair production in periodic nanotube superlattice* (V. Maishev)
- 10.50–11.30 **Coffee**
- 11.30–12.20 *Current instability and diamagnetism in small diameter carbon nanotubes* (J. Gonzalez)
- 12.20-12.50 *Tuning the magnetic properties of strongly correlated nanoclusters* (C. Verdozzi)
- 12.50-13.20 *Single wall nanotubes: atomic like behaviour and microscopic approach* (P. Onorato)
- 13.20-14.40 **Lunch**
- 14.40-15.30 *Ion irradiation of nanotubes* (A. Krashenninikov)
- 15.30–16.00 *Rainbow effects in carbon nanotubes* (D. Borka)
- 16.00-16.40 **Coffee**
- 16.40–17.30 *Channeling as a method of making nanosized beams of Particles* (V. Biryukov)
- 20.00 **Conference Dinner (Hotel Villa Mercede)**



Tuesday 19 October

Chair: V. Biryukov

- 9.10–10.00 *Supramolecular ordering in ultra thin films of conjugated molecules measured by multiphoton laser scanning confocal spectro-microscopy*
(R. Zamboni)
- 10.00–10.30 *Aluminium nitride nanostructures* (C. Balasubramanian)
- 10.30–11.10 **Coffee**
- 11.10–12.00 *Carbon nanotube immuno-carriers identify gClq-R/p33 release by human epithelial cells for immuno-defense* (B. Panessa-Warren)
- 12.00–12.30 *Discrimination of B-C-N nanotubes through energy-filtering electron microscopy and electrical measurements* (D. Golberg)
- 12.30–13.00 *Present status of INFN-LNF activity on carbon nanotubes*
(F. Tombolini)
- 13.00–14.40 **Lunch**
- Chair: A. Krashenninikov*
- 14.40–15.30 *Microcontact printing, nanoimprint lithography and e-beam lithography* (G. Schmidt)
- 15.30–16.00 *Electronic structure of iron oxide nanoparticles* (M. Preisinger)
- 16.00–16.40 **Coffee**
- 16.40–17.30 *Summary talk* (M. Cini)

