| **Saturday, June 28th 2008** | | |
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| **8:30** | | **Registration** |
| | **Session I: Excitonic and Mechanical Properties of Nanotube Structures** *Chair: D. Tomanek* | |
| **9:00** | A. Rubio | Optical Properties of BN nanostructures : role of defects and dimensionality effects [*invited:* I-1] |
| **9:30** | Y. Miyamoto | Modulation of optical field inside nanotubes with the perpendicular direction [*invited:* I-2] |
| **10:00** | G. Seifert | Mechanical Properties of Nanotubes [*invited:* I-3] |
| **10:30** | | **Coffee Break** |
| | **Session II: Transport in Carbon nanotubes based devices** *Chair: S. Roche* | |
| **11:00** | Ph. Dollfus | Particle Monte Carlo approach to semi-classical and quantum transport in CNTFET within a multiscale simulation framework from atoms to circuit [*invited:* II-1] |
| **11:30** | Y.F. Zhukovskii | Modeling of electronic properties of CNT bundles and interconnects [*contributed:* II-2] |
| **11:45** | S. Bellucci | Electronic transport in carbon nanotubes: Luttinger liquids and correlated superconductivity [*contributed:* II-3] |
| **12:00** | M. Roy | Semiconducting carbon nanotube quantum dots: calculation of the interacting electron states by exact diagonalisation [*contributed:* II-4] |
| **12:15** | J. Cannon | Application of non-equilibrium molecular dynamics to the study of flow through nanotubes [*contributed:* II-5] |
| **12:30** | | **Lunch** |
| **13:30** | | **Poster session (Session V)** |
| | **Session III: Chemical Reactivity and Functionalization of carbon nanotubes** *Chair: A. Rubio* | |
| **14:00** | N. Marzari | Cycloaddition functionalizations to control or preserve the conductance of carbon nanotubes [*invited:* III-1] |
| **14:30** | F. Mercuri | Investigations on the electronic and reactive properties of carbon nanotubes through finite-length models based on Clar sextet theory [*contributed:* III-2] |
| **14:45** | Y.J. Dappe | Van der Waals energy in DFT and intermolecular perturbation theory : application to Carbon Nanotubes, Fullerene and Graphene [*contributed:* III-3] |
| **15:00** | M.S. Ferreira | Long range interaction in magnetically-doped carbon nanotubes: static and dynamic approaches [*contributed:* III-4] |
| **15:15** | Z. Zanolli | Gaz sensors based on defective carbon nanotubes [*contributed:* III-5] |
| **15:30** | A.L. Bezanilla | Electronic transport properties of functionalized carbon nanotubes grafted with phenyl molecules [*contributed:* III-6] |

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| **16:00** | **Coffee Break** | |
| | **Session II: Graphene structure and properties**<br>*Chair: J.C. Charlier* | |
| **16:30** | C. Giorgetti | AB INITIO Calculations of Electronic Excitations in Carbon nanotubes and Graphene Layers Systems [*invited:* IV-1] |
| **17:00** | L. Henrard | Few Layer Graphite and interacting carbon nanotubes : electronic and vibrational properties [*invited:* IV-2] |
| **17:30** | F. Varchon | Electronic structure of Epitaxial Graphene [*invited:* IV-3] |
| **18:00** | A. Ruini | Ab-initio many-body effects on the optoelectronic properties of 1D nanostructures: carbon nanotubes and graphene nanoribbons [*contributed:* IV-4] |
| **18:15** | S. Dubois | Spin Transport in Graphene Nanoribbons: the crucial effect of point defects [*contributed:* IV-5] |
| **18:30** | B. Biel | Electronic transport properties of chemically doped graphene nanoribbons [*contributed:* IV-6] |
| **18:45** | A. Ayuela | Complex Magnetic Behaviour of Substitutional Transition Metal Dopants in graphenic Systems [*contributed:* IV-7] |
| **19:00** | P. Sorokin | Electronic wave guides and supperlattices based on graphene modified by 2H adsorbed lines [*contributed:* IV-8] |