



**Workshop & "Giornata INDAM"**  
**Multiscale Analysis for Quantum Systems  
and Applications**

**Istituto Nazionale di Alta Matematica ( INDAM )  
Roma, Italy, October 24-26, 2007**

**Invited speakers for "Giornata INDAM" (October 25, 2007):**

- **A. Ghatti** (ST Microelectronics): Electron and hole inversion layer mobility: theory and simulation
- **A. Gnudi** (DEIS, University of Bologna): Numerical simulation of ballistic quantum transport in silicon nanowires accounting for full band effects
- **C. Le Bris** (ENPC and INRIA, Paris): Some mathematical and algorithmic aspects of computational materials science
- **S. Pascazio** (University of Bari): Statistical mechanics of multipartite entanglement
- **R. Resta** (University of Trieste and CNR-INFM): The insulating state of matter: a geometrical theory
- **R. Schrader** (University of Berlin): Physics and mathematics of metric graphs

**Organizing committee:** D. Benedetto (Roma), G. Dell'Antonio (Roma), G. Panati (Roma), M. Pulvirenti (Roma), V. Romano (Catania), A. Sacchetti (Modena), A. Teta (L'Aquila).

The workshop is organized in the framework of the INdAM project

**“Mathematical modeling and numerical analysis of quantum systems  
with applications to nanosciences”**

**Further information:** please visit the website

<http://www.mat.uniroma1.it/ricerca/convegni/MAQM2007/INDAM2007.htm>