

laboratory for quantum electronic transport and superconductivity (LaTEQS)

Fri, 2014-12-19 10:53 - [marc Sanquer](#) [1] **Website:**
http://inac.cea.fr/en/Phocea/Vie_des_labos/Ast/ast_groupe.php?id_groupe=208 [2]

Research Type: Experiment

The research activity of this laboratory embraces various aspects of mesoscopic quantum transport in nanostructures and low-dimensional systems: silicon nano-MOSFETs made by state-of-the-art nanofabrication techniques, self-assembled semiconductor nanostructures, carbon nanotubes, superconducting thin films, hybrid systems combining superconductors, normal conductors, and ferromagnets. In these systems we study the physics of individual confined electrons, as well as quantum phenomena resulting from strong electron-electron correlations (e.g. due to superconductivity, Coulomb interaction, Kondo effect, etc.).

Our experimental tools range from low-noise electrical measurements, to current noise detection, specific-heat measurements, and scanning-electron microscopy. Also, we are currently developing advanced techniques for time-resolved electrical measurements involving high-frequency signals.

Leader: Dr. Marc Sanquer

Location

CEA-Grenoble 17 rue des martyrs
Grenoble 38054 France

- [Other](#) [3]

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