

Curriculum Matteo Salvato

Date of Birth: 26/07/1964

Place of Birth: Roccapiemonte (SA)

Citizenship: Italian

Permanent Address: Physics Department at the University of Rome "Tor Vergata", Via della Ricerca Scientifica I, 00133 Roma, Italy

Actual Position: Researcher - Physics of Matter

Activity research:

The research is developed in the field of Physics of Matter and assumed an experimental character in the following main activities:

Thin Film Fabrication: Molecular Beam Epitaxy and Sputtering to obtain thin films and superlattices.

X-Ray: Reflectivity and high angle techniques, with numerical simulations, to study the disorder at the interface in superlattices and the structural disorder in thin films induced by the substrate.

Superconductivity: Transport properties of superconducting/magnetic or insulating heterostructures to understand the influence of different materials on superconductivity. Investigation of many phenomena related to Josephson effect.

Carbon Nanotubes: Transport properties of Carbon Nanotubes in a wide temperature range for nanoelectronic applications.

Teaching: Appointed at the courses of "Experimental Physics II" at Media and Communication Science and "Thin Films Growth" at Science of Materials. Assistant at the courses of "Laboratory III" and "Electronic Laboratory" at Physics and Science of Materials at the University of Rome "Tor Vergata"

Some most recent publications:

"Transport Properties of Nb/PdNi bilayers", **Journal of Physics and Chemistry of Solids** **67**, **412(2006)**

"Growth of diborides thin films on different substrates by pulsed laser ablation", **Thin Solid Films** **515**, **1439(2006)**

"Activation Energy in $La_{0.7}Ca_{0.3}MnO_3/YBa_2Cu_3O_7/La_{0.7}Ca_{0.3}MnO_3$ Superconducting Trilayers", **European Physics Journ. B** **51**, **79(2006)**

"Electron Spectroscopy Study in the NbN growth for NbN/AlN interface", **Surface Science** **601**, **2647(2007)**

"Integrating Superconductive and Optical Circuits", **Appl. Phys. Lett.** **92**, **202505 (2008)**

“Charge Transport and Tunneling in Single Walled Carbon Nanotubes”, **Phys. Rev. Lett. 101, 246804(2008)**.

“Coherent Activation of Zero-Field Fiske Mode in Arrays of Josephson Junctions”, submitted to **Phys. Rev. Lett. (2008) (cond-mat arXiv: 0811.4317)**.