

**Torino, February 6th 2009**

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## **Curriculum vitae et studiorum**

Marco Coïsson

born in Torino, Italy, on May 9th 1974

address: corso Monte Cucco 113, 10141 Torino (TO), Italy

### **Current job position**

Researcher at INRIM (National Institute for Research in Metrology),  
Electromagnetism Division, strada delle Cacce 91, I-10135 Torino (TO), Italy.

### **Degrees**

- Degree in Physics at the University of Torino, 1998, with a grade of 110/110 *cum laude*. Thesis titled *Study and modelling of magnetic properties in nanostructured materials displaying giant magnetoresistance* performed at IEN Galileo Ferraris, Torino.
- PhD in Metrology, Science and Technology of Measurements, 2002, at Politecnico of Torino. Thesis titled *Development of techniques for the electric and magnetic characterization of metastable metallic phases at high frequency* performed at IEN Galileo Ferraris, Torino.

### **Scientific activity**

The main topics of scientific interest include:

- magnetic and magnetotransport properties of rapidly solidified magnetic materials, including amorphous and nanocrystalline ribbons, and out-of-equilibrium metastable alloys;
- magnetic properties, magnetization processes, magnetic domain configuration, and their link to anisotropy and microstructure, of magnetic thin films, either amorphous or (nano)crystalline;
- high-frequency characterization of amorphous materials, including magnetic ribbons and thin films, by means of giant magneto-impedance and ferromagnetic resonance;
- high-frequency properties of soft ferrites;
- magnetic and magnetotransport properties of nanogranular magnetic thin films;
- magnetic properties, anisotropy, magnetic domains and magnetization processes in nanostructured magnetic materials, including dots, rings, antidots, either single- or multi-layered;

- magnetotransport properties and giant magneto-resistance of multilayered films;
- magnetic properties and interaction effects on micro- and nano-powders, including Fe- and Co-oxides, both as-is and embedded in polymer or other insulating matrixes, for environmental, medical or industrial applications.

### **Experience**

- 1998-1999: INFM grant within the framework of *Progetto Sud on Production of magnetoelastic sensors for analysis of displacements, vibrations and flows*; IEN Galileo Ferraris, Torino;
  - 1999-2001: PhD in Metrology: Science and Technology of Measurements;
  - 1999-2001: involved in INFM PRA-ELTMAG Project, UdR Torino Politecnico, at IEN Galileo Ferraris, Torino;
  - 2002-2003: post-doc position at IEN Galileo Ferraris, Materials Dept., working on high-frequency magnetic properties of materials and precision magnetic measurements;
  - 2004-2007: temporary position as Researcher at IEN Galileo Ferraris, then INRIM, Electromagnetism Division, working on magnetic properties of magnetic thin films, nanostructured materials, powders;
  - since 2008: permanent Researcher at INRIM.
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- Author of more than 80 scientific papers in international, peer reviewed scientific journals; index "h" of citation = 9;
  - participant to more than 15 international conferences on magnetism and magnetic properties of matter, with both oral and poster contributions; invited oral contribution to MISM Conference, Moscow, June 2008;
  - member of the "Local Committee" of the PRA-ELTMAG Workshop, Torino, 2002;
  - member of the "Publicity and Website Committee" of the SMM19 Conference, Torino, 2009;
  - involved in the study and characterization of magnetic powders of Fe and Co oxides for magnetic inks, with Fabriano Security;
  - lecturer of the class on *Magnetismo nella Materia* at XX and XXI *Corso misure e materiali magnetici*, IEN Galileo Ferraris, 2002 and 2005;
  - member of PhD jury of Sophie Cazottes (Rouen, September 2008) and Salil S. Modak (Cachan, December 2008);
  - referee for several international scientific journals, e.g. Physical Review B, Physical Review Letters, IEEE Transactions on Magnetism, Journal of Magnetism and Magnetic Materials, Sensors and Actuators A, Chemical Physics Letters, Journal of Physics: Condensed Matter;
  - member of the Editorial Advisory Board of The Open Applied Physics Journal.

Torino, February 6th, 2009

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