

Maurizio Enrico Corti

1991-2001 Assistant Professor of Condensed Matter Physics at the University of Pavia.

From September 2001 Associate Professor of Experimental Physics at the Faculty of Sciences of the Pavia University. Has been teaching courses of "Digital Techniques of Data Acquisition", "Electronics Physics" and "Biomedical Instrumentation".

Visiting Scientist at Iowa-State-University (Dept. of Physics).

Supervisor for the activity at the NMR-NQR, MRI and Wide-Band EPR Laboratories; Department of Physics "A. Volta" of the University of Pavia. Coordinator of NATO, CNR-TUBITAK, PRIN and CARIPO scientific Projects.

Present Research Interests:

Experimental research in Solid State Physics;

NMR-NQR techniques applied to the study of microscopic effects in polymer, gels, ferroelectric relaxors, magnetic systems, molecular nanomagnets, semiconductors and in high temperature superconductors (HTcSC);

NMR studies on electronic structure, hyperfine interactions, magnetic correlations, superconducting-vortex dynamics in HTcSC and in Rubidium-doped Fullerene;

Magnetic and NMR relaxometry studies on novel nanocrystal based superparamagnetic Contrast Agents for MRI.

Advanced NMR techniques for slice selection and topical NMR in solids and for Magnetic Resonance Imaging have been developed by the applicant;

Scientific publications: 100 in referred international Journals on Physics and Material Science.