

Associazione MQC2
Città della Scienza
Istituto Italiano per gli Studi Filosofici
con il patrocinio della Regione Campania

III INTERNATIONAL WORKSHOP on
"Macroscopic Quantum Coherence
and Computing"

Città della Scienza, Via Coroglio 104, Napoli, Italy

3-7 June, 2002



in collaboration with:

Consiglio Nazionale delle Ricerche (CNR)

Seconda Università di Napoli (SUN)

European Office of Aerospace Research and Development (EOARD)

Università di Napoli "Federico II": Rettorato, Dipartimento di Scienze Fisiche, Polo delle Scienze e delle Tecnologie

Istituto Nazionale di Fisica della Materia (INFM): Sezione D "Magnetismo, Metalli e Superconduttività", Sezione di Napoli

Istituto Nazionale di Fisica Nucleare (INFN)

The aim of the workshop is to report on the recent theoretical and experimental results on the macroscopic quantum coherence of macroscopic systems. Particular attention will be given to the coherence effects in Josephson systems. The correlation with other atomic and molecular systems, exhibiting a macroscopic quantum coherence behaviour, is also discussed. Such proposals will be considered for implementation of various schemes for coherent information processing and quantum computation.

Steering Committee

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Speakers list will include: D.V.Averin, University of New York at Stony Brook, NY-USA - R. Blick, L.Maximilians University, München, Germany - F. Cataliotti, Università di Firenze, Italy - I. Chuang, IBM Almaden Center, San Jose, CA-USA - J.Clarke, University of California, Berkeley, CA-USA - V. Corato, Istituto di Cibernetica "E. Caianiello" - CNR, Pozzuoli, Italy - D. Cory, MIT, Cambridge MA-USA - C. Cosmelli, Università di Roma "La Sapienza", Italy - V. Crespi, Pennsylvania State University, USA - S. Das Sarma, University of Maryland, College Park, USA - P. Delsing, Chalmers University of Technology, Göteborg, Sweden - K. Esslin, ETH, Zurich, Switzerland - D.Esteve, CEA -Saclay, France - G. Falci, Università di Catania, Italy - M. Feldman, University of Rochester, NY -USA - D. Haviland, Royal Institute of Technology, Stockholm, Sweden - F. Hekking, CNRS, Grenoble, France - L. Kouwenhoven, Delft University of Technology, The Netherlands - L. Kuzmin, Chalmers University of Technology, Göteborg, Sweden - A. Leggett, University of Illinois at Urbana-Champaign, IL-USA - R. Leoni, IESS-CNR, Roma, Italy - J. Lin, National University of Singapore, Singapore - J.Lukens, State University of New York at Stony Brook, NY-USA - C. Marcus, Harvard University, Cambridge, MA-USA - J.E. Mooij, Delft University of Technology, The Netherlands - Y. Nakamura, NEC Laboratories, Tsukuba, Japan - H. Park, Harvard University, Cambridge, MA-USA - J. Pekola, University of Jyväskylä, Finland - J. Ralph, University of Liverpool, England - M. Rasetti, Politecnico di Torino, Italy and INFN, Italy - T. Ruseckas, Department of Engineering and Applied Sciences, Harvard, MA-USA - P. Sheng, University of Science and Technology, Hong Kong, China - L. Stodolsky, Max Planck Institut, München, Germany - A. Tagliacozzo, Università di Napoli, Italy - A. Zorin, PTB Braunschweig, Germany.

Workshop Secretariat: Anna Maria Mazzarella

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