CURRICULUM VITAE ET STUDIORUM

Carlo Cosmelli, born in Roma, Italy, on 19 November 1950

1974 Laurea in Physics Magna cum Laude at Rome University with the thesis: Realization of a superconducting magnetometer for the study of metalloproteins

1975 Fellowship from CNR (National Research Council, Italy) with the Group of Gravity Waves in Roma.

1975-79 Collaboration with the Gravity Waves group In Rome where he is in charge of the setting and measurements of a small antenna (10kg) at temperatures below 4.2 K

1976 Fellowship of Italian Public Instruction Ministero.

1977-78 Renewal of the Fellowship from CNR

1979-81 Four-Year Contracts as Expert Researcher in low temperature physics by CNR. During these years he works on design and realization of superconducting transducers coupled to very sensitive magnetometers (SQUID).

1979-80 Contract from the National Science Foundation (USA) for a Position of Faculty Research Ass. at the University of Maryland, USA.

1980 Tenure as Researcher in Physics at the University La Sapienza, Rome, Italy.

1982-87 He projects and realizes the superconducting transducer used for the Gravity Wave Antenna “EXPLORE” of the Rome Group, at CERN, Switzerland.

1986 Associate Professor at the University of Salerno, Italy.

1991 Associate Professor at the University La Sapienza, Roma, Italy.

1991-94 Project and realization of the three-mode superconducting transducer coupled to a dc SQUID used for the gravity wave antenna NAUTILUS, formerly at CERN and then at Frascati, Rome, cooled at a temperature of 50 mK.

1995-2001 Presents to Istituto Nazionale di Fisica Nucleare, INFN, Italy a project for the realization of an experiment of Macroscopic Quantum Coherence (MQC). The project is approved. Project Leader and Spokesman

1998-1999 First measurements in stationary regimes of the quantized energy levels of a Josephson junction and of a rf SQUID cooled below 50mK.

1999-2001 Project of INFM, Italy for the implementation of a qu-bit realized with superconducting devices. Leader of the Rome Group.

2002-2005 Project SQC (Superconducting Quantum Computing) supported by INFN, Italy. Project Leader and Spokesman.

2003 Measurements on a dc SQUID based qubit. Excitation of coherent oscillations induced by microwave pulses.

2004- Project RSFQubit supported by European Community, (Sweden, Germany, Italy, France, Finland, England).

Collaboration with CUORE experiment (search of neutrinoless double beta decay)