Curriculum vitae
Roberto Petronzio

Education

B.Sc. in Physics – University of Rome La Sapienza – 1972
Ph.D. in Physics – University of Rome La Sapienza – 1976

Employment

* Fellowship by Ministry for Scientific Research; 1972-1974
* Research contract at the University of Rome La Sapienza; 1975-1979
* Fellow at the Theoretical Division, CERN, Geneva, 1977-1979
* Assistant Professor at the University of Rome La Sapienza, 1979-1980
* Staff member at the Theoretical Division, CERN, Geneva, 1979-1986
* Associate Professor, University of Rome La Sapienza, 1980-1984
* Visiting researcher at the École Normale Supérieure , Paris, 1985
* Visiting researcher at the Max Planck Institüt, München, 1987 (Jan.-Jul.)
* Visiting professor at the Boston University, 1980-1990 (Jan.-Apr.)
* Full Professor, University of Rome Tor Vergata; 1987-1990- present

Professional Activities

* President of Italian National Institute for Nuclear Physics -INFN, 2004-present
* Member, Executive Board of INFN, 2000-2003
* Member, and current Chair, Steering Committee of Astroparticle Physics European Coordination - ApPEC, 2000-present
* Member of Board of Governors of the Fermi Center, 2000–2004
* Director, CAST Science and Technology for Advanced calculation in Science and Technology, Univ. of Rome Tor Vergata, 1999-present
* Fellow, Italian Physical Society
* Delegate of the Rector, Advisory Board for scientific research of the University of Rome Tor Vergata, 1996-2002
* Member, Board of Directors of the University of Rome Tor Vergata, 1992-2002
* Coordinator, Ph.D. courses in Physics, University of Rome Tor Vergata, 1991-1994
* Member, Executive Board of the Department of Physics, University of Rome Tor Vergata, 1991-1994
* Editor of Physics Report, Elsevier Science, 1993-present
* Coordinator, national projects “Theoretical Physics of fundamental interactions” 1994-2003
* Chair, Funding Agencies for a Linear Collider (FALC), 2005-present

Research Interests

* Numerical simulations of quarks subnuclear interactions
* Elementary particle phenomenology
* Supercomputer design for numerical simulations

Scientific activity

His scientific activity has been mainly focused on

- elementary particles phenomenology,
- investigation of statistical models with real space renormalization group techniques
- study of non-perturbative properties of quantum chromodynamics
- study of the Higgs sector of the standard model through numerical simulations.

More recently, he got involved in the project of developing a dedicated supercomputer based on commercial CPU for lattice QCD simulations.
His activity is documented by about 140 papers published on international journals with an average citation index of 50, a maximum beyond 400 and 16 publications with more than 100 citations, a total of 8000.