

Born in Siena (Italy) on 4/18/1955. Degree in Physics at the University of Pisa (cum laude) ; Ph.D in Physics at Scuola Normale Superiore (cum laude); RA at WestField College (London) for one year. He joined INFN (Istituto Nazionale di Fisica Nucleare) in Pisa as research staff in 1983. Research Fellow in the EP division at CERN for 3 years; Associate Professor (1992); Professor of Physics since 2002. He is at present the director of the Ph.D School in Experimental Physics at the University of Siena.

Co-author of more than 300 papers, his research activity in experimental High Energy Physics started in the late seventies. At that time, he studied the electromagnetic structure of hadrons with the NA7 experiment at the CERN-SPS and the photoproduction of charmed mesons with NA1.

One of the promoters of the ALEPH experiment at LEP for the experimental test of the validity of the Standard Model of the Electro-Weak interactions, he played a major role in the development of the Aleph Time Projection Chamber and of its multi-processor readout system. He also contributed to the study of the Z decays into lepton pairs, of the tau decay modes and to the search for the charmed baryon " Ξ_c ".

In the mid-nineties, he participated in the project studies on CP violation in B decays with the BaBar experiment at Stanford (SLAC).

His research activity in Astroparticle Physics started with the participation in the AMS collaboration - a magnetic spectrometer aboard the International Space Station (ISS) - where he took part in the development of the Pb/Sci-Fi electromagnetic calorimeter with the INFN Pisa group.

He proposed and coordinated the INFN participation in the balloon experiment CREAM, for the measurement of the energy spectra and elemental composition of charged cosmic rays in a series of NASA balloon flights from Antarctica. He participated in the Antarctic campaign for the first flight and directed the construction and commissioning of the W/SciFi calorimeter built by INFN for the second flight.

He coordinated several R&D projects on high energy and astroparticle physics instrumentation, including the development of pixelated silicon sensors for the charge identification of ultra-relativistic ions; front-end electronics

with large dynamic range and low power; ionization and Cherenkov detectors readout by Silicon Photomultipliers (SiPM) with an active control system of the gain.

Principal Investigator (PI) for the Italian participation in the CALET experiment on the ISS for the study of high energy cosmic-ray electrons, an international space mission financed by JAXA,ASI and NASA.

Member of the Gruppo Collegato di Siena dell'Istituto Nazionale di Fisica Nucleare (INFN) operating in close collaboration with the INFN of Pisa.