

MONICA PEPE ALTARELLI – MINIBIO

After completing her studies in experimental particle physics at the University of Genova, Italy, with a thesis on neutrino counting from radiative Z decays, in 1983 Monica Pepe Altarelli joined the Rutherford Laboratory as Research Associate in the NA32 experiment on hadronic production of charmed particles at the CERN SPS accelerator. In 1987, she joined CERN as research fellow in the ALEPH experiment at the LEP accelerator, working mainly on data analysis; she was one of the principal authors of the first measurement of the number of light neutrino species, one of the main results of LEP, in a small group led by Jack Steinberger. She continued to work with the ALEPH experiment as tenured research physicist at the “Laboratori Nazionali di Frascati” of the INFN, concentrating her research on precision tests of the Standard Model in the electroweak physics sector, as convener of the analysis group on electroweak physics. She became CERN staff in the year 2000 and joined the LHCb experiment at the LHC, first as leader of the CERN team and then, from 2014 to 2017, as deputy spokesperson of the LHCb collaboration. Her current main scientific interest is the search for New Physics beyond the Standard Model through the study of very rare decays of charm and beauty-flavoured hadrons and precision measurements of CP-violating observables with the LHCb detector.

Monica Pepe Altarelli is the author of around 800 refereed journal publications and made major contributions to at least 30 of them. Currently, she is on the International Advisory Committee of the LHCP and CKM conferences and is a member of the managing board of “Les Rencontres de Moriond”. She is a member of the “Commission scientifique des Hautes et Basses Energies” of FNRS (Belgium funding agency) and an expert evaluator for STFC’s Ernest Rutherford Fellowship applications. In 2014 she was elected as Vice-President at Large of the Executive Council of the International Union of Pure and Applied Physics (IUPAP) and was nominated Associate Member Delegate to the EPS Council for the period April 2017-2021.