

# CERN's support for LEP machine and the collaborations during the LEP construction period 1984 to 1989 and preparation for the LEP energy upgrade and for LHC during LEP I operations 1989 to 1994

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## Abstract

With the approval of the LEP programme and of the four LEP experiment proposals, followed by the groundbreaking start of LEP construction during the years 1980 to 1983, the year 1984 saw the closure of the ISR and bubble chamber programmes allowing CERN's resources to be focussed on the new challenging activities associated with LEP. Based on contributions from colleagues, I will talk about the support for the LEP machine and describe CERN's technical involvement with the collaborations of the four LEP experiments during the LEP construction period 1984 to 1989. In addition, I will talk about the preparations for the LEP energy upgrade and for the LHC during the LEP I operation period 1989 to 1994.

## Career summary

1965 Ph.D. thesis work in nuclear physics at the University of Heidelberg

1968 Staff member CERN, Geneva, Switzerland: Big European Bubble Chamber (BEBC) project

1981 Leader of BEBC Group at CERN

1984 Leader of Experimental Facility Division (EF) at CERN

1990 Leader of Accelerator Technology Division (AT/LHC) at CERN

1993 LHC Deputy Project Leader at CERN

1994 Research/Technical Director at CERN

2000 -2003 R&D superconducting RF cavities CERN-DESY /CERN Future

Since 1982 Member of various boards (BMBF Bonn, DESY, GSI, Jülich)

1997-2000 Chairman of Scientific Advisory Board, Helsinki Institute of Physics

2000 -2004 Member of Scientific Review Group for Norwegian Research Council

2000 -2013 Member of Technology Panel, European Physical Society

2005 - 2013 Facility for Antiproton Ion Research, GSI

Activities: Nuclear physics spectroscopy, bubble chamber physics, neutrino physics, LEP physics experiments, particle physics detector and accelerator R&D

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