

HEINRICH WAHL CURRICULUM VITAE

1938 Born in Wurzburg, Germany

1957–59 Study of physics at the University of Munchen

1960 Studies at the Swiss Technical Highschool (ETH) in Zurich

1961–64 Studies at the University of Hamburg

1962–67 Work on nuclear resonance fluorescence and reaction mechanisms at the Van de Graaf accelerator of Hamburg University.

1963 Diploma in physics on “Nuclear Resonance Experiments using a Coincidence Method in the Reaction $^{19}\text{F}(p, \alpha \gamma)^{16}\text{O}$ ”.

1964–67 Scientific Assistant at the University of Hamburg

1967 Doctoral Degree on “Measurement of the Electromagnetic Transition Probabilities of the first two Excited States in ^{6}Li Nuclei”.

1968–69 Staff Physicist at the German Electron-Synchrotron Laboratory DESY in Hamburg. Experimental work on photoproduction of mesons at the DESY electron accelerator.

1969–71 Fellow and Research Associate at CERN in Geneva

1969–74 Research on neutral kaon and hyperon decays at the CERN PS with the CERN-Heidelberg collaboration. Precision measurements of various parameters in the neutral kaon system, in particular of the CP violating amplitude η^{+-} , its phase and the charge asymmetry in semileptonic kaon decays.

1970 “Physikpreis” of the German Physical Society jointly with the group F35 at the German Electron-Synchrotron DESY “in appreciation of the experimental investigations on the production of charged pi-mesons by high-energy gamma-rays”.

Since 1971 Research Staff Physicist at the European Laboratory for Particle Physics CERN in Geneva.

1975 PS Co-ordinator and Secretary of the Nuclear Physics Research Board.

1974–83 Experimental investigations of high energy neutrino interactions at the CERN SPS with the CERN-Dortmund-Heidelberg-Saclay collaboration (WA1 experiment). This includes the measurement of charged-current structure functions and their comparison with QCD, the first precise measurement of the Weinberg angle, evidence for right-handed couplings in weak neutral current interactions, and the clarification of the origin of multimueon events in neutrino interactions.

1976–77 Visiting Scientist at DESY in Hamburg, working with the Pluto collaboration

at the Doris e+e- storage ring.

1981–93 Experiment on CP violation at the CERN SPS accelerator, primarily to search for direct CP violation and to measure the parameter " ϵ' / ϵ " in neutral kaon decays. Spokesman of the CERN-Dortmund-Edinburgh-Mainz- Orsay-Pisa-Siegen Collaboration (NA31 experiment). First observation and measurement of direct CP violation.

1981–86 Work on the proposal for the Aleph experiment at the e+e- storage ring LEP, esp. the design and construction of the TPC track detector and its read-out electronics, and the Silicon-calorimeter luminosity monitor.

Since 1989 Preparation, construction and data-taking of a new experiment on direct CP violation in neutral kaon decays with the CERN-Cagliari-Cambridge- Dubna-Edinburgh-Ferrara-Florence-Mainz-Orsay-Perugia-Pisa-Saclay- Siegen-Torino-Vienna-Warsaw Collaboration (NA48 experiment). Contactman for the experiment and leader of the CERN group.

1993–94 Guest Scientist at the Max-Planck-Institute for Physics in Munich, working on the HEGRA cosmic ray experiment based on La Palma. Search for celestial high energy -ray sources.

1999 Confirmation of the 1988 and 1993 NA31 results on direct CP violation by the NA48 experiment, and by the KTeV experiment at Fermilab.

1999-2003 Spokesman of the NA48 collaboration at CERN.

2001–03 Co-spokesman of the NA48/1 experiment at CERN.

Since 2002 Professor of Physics at the University of Ferrara.

2005 High Energy Particle Physics prize of the European Physical Society jointly with the NA31 collaboration.

2007 The American Physical Society WKH Panofsky Prize in Experimental Particle Physics jointly with I Mannelli and B Winstein.

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