

## CURRICULUM VITAE

- 1938 Born in Würzburg, Germany
- 1957–59 Study of physics at the University of München
- 1960 Studies at the Swiss Technical Highschool (ETH) in Zürich
- 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  $\text{Li}^6$  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  $\eta_{+-}$ , 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  $\epsilon'/\epsilon$  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  $\gamma$ -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.
- Since 1999 Spokesman of the NA48 collaboration at CERN.
- 2001–03 Co-spokesman of the NA48/1 experiment at CERN.
- 2002–11 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.
- Since 2012 Associate at the Department of Physics of the University of Ferrara collaborating on the Gigatracker project of the NA62 experiment.

Date: October 22nd, 2018

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