

## Curriculum Vitae: Dietrich Wegener

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### Personal Information

Date of birth: 15.3.1939  
Place of birth: Groß Nebrau, rural district of Marienwerder, Germany  
Marital status: married to Beate Wegener, neè Koch  
Current position: 10/2004 Professor Emeritus

### Education

1946 - 1951 Elementary school Sage, Oldenburg i. O.  
1951 - 1958 Graf - Anton - Günther Gymnasium, Oldenburg i. O.  
1958 - 1964 Study of physics University of Göttingen  
1964 Dipl.Phys. University of Göttingen  
1966 Dr. rer. nat University of Göttingen  
1972 Habilitation University (TH) Karlsruhe

### Academic Positions

1965 Scientific Assistant University of Göttingen  
1966 - 1972 Scientific Assistant University (TH) Karlsruhe  
1973 - 1974 Research Associate CERN, Geneva  
1975 assoc. Professor (apl. Professor) University(TH) Karlsruhe  
1975 - 1977 Administrative Professor (Lehrstuhlvertretung) Institute of Nuclear Physics I  
of University(TH) and Nuclear Research Center (KFZ) Karlsruhe  
1977 - 2004 Full Professor (ord. Professor) of Physics, University of Dortmund  
2004 - Professor Emeritus TU Dortmund

## Administration and Committee

1968 - 1973	Spokesman DESY - Freiburg - Karlsruhe Collaboration at DESY, Hamburg
1969 - 1970	Research Committee (Forschungskollegium) Deutsches Elektronensynchrotron (DESY), Hamburg
1971	Member of german delegation to UdSSR to investigate possibilities of cooperation of russian and german institutes in high energy physics
1973 - 1975	Spokesman of CERN-College de France-Heidelberg-Karlsruhe (CCHK) collaboration at CERN, Geneva
1979 - 1985	European Physical Society HEP and Publication Board
1980 - 1998	Finance Committee University of Dortmund
1979 - 1982	DESY Physics Research Committee
1983 - 1985	DESY Scientific Council
1991 - 1994	Structure and Selection Committee Humboldt University, Berlin
1992 - 1995	German Delegate of European Committee for Future Accelerators (RECFA)
1992 - 1998	Committee of Experts (chair), German Ministry of Research (BMBF)
1994 - 1996	DESY Scientific Council
1996 - 1999	DESY Scientific Council (chair)
1998 - 2004	Senat of Dortmund University
1997 - 1999	Strategiefond of the Helmholtz Society
2000 - 2022	Committee of good scientific practice TU Dortmund (chair)
1994 - 2000	German Science Council: evaluation committee (chair) of about 90 institutes of the blue list, now Gottfried-Wilhelm-Leibniz Society; inter alia member of Committees reviewing energy and material research in Germany, as well as the structure of the departments of science and humanities of Berlin universities
1999 - 2008	Stammkommission Max Planck Institute for Nuclear Studies, Heidelberg
2000 - 2006	Evaluation committee of the Gottfried Wilhelm Leibniz Society (chair)
2000 - 2005	German Physical Society: Division of Particle Physics (chair)
2000 - 2002	Expert Committee Global Environment Aspects (GUA) of the German Ministry of Research (BMFT)
2003	Evaluation Committee of the Extended Scientific Council of DESY, Hamburg
2003 - 2004	Evaluation Committee „Science in Thüringen “(chair)
2004	Review Committee: Research Evaluation of the physics department of the Humboldt University, Berlin
2005	Review Committee (chair) Institut für physikalische Hochtechnologien, Jena
2004 - 2006	Review Committee „Hochschulentwicklung 2020 “Baden-Württemberg
2005	Peer review panel of the CSIC Centers and Institutes, Spain
2006	Gutachterkommission des Wissenschaftsrates im Rahmen der Exzellenzinitiative für die FU Berlin und die Universität Karlsruhe
2011	Peer review panel of croatian research centers, Croatia
2011	Review Committee for the departments of science and engineering, Brandenburg

## Awards

1964 - 1965	Scholarship of the VW foundation
2008	Officers Cross of the order of Merit of the Federal Republic of Germany (Bundesverdienstkreuz 1. Klasse)
2017	Ehrennadel TU Dortmund

## Memberships

German Physical Society  
European Physical Society  
Alumni Club of Göttingen university

## Research interests

High energy physics (weak interactions of heavy quarks and  $\tau$ -leptons, fragmentation of gluons and quarks, hard proton proton interactions, electron proton scattering, diffractive interactions)  
Detector development (space resolving Cerenkov counters, calorimetry, time of flight counters, Multi Wire Proportional Chambers, Trigger development, basics of scintillation process)  
Medical Physics (Optimizing dose distributions, development of new dosimetry equipment)  
Nuclear Physics ( $\gamma$ -spectroscopy, high energy interactions of protons with nuclei)  
Accelerator physics

## Publications

More than 400 publications in international journals.

### Selected sample of publications:

S. Galster, H. Klein, J. Moritz, K.H.Schmidt, D. Wegener, J. Bleckwenn  
Elastic electron deuteron scattering and the electric neutron formfactor at four momentum transfers  $5 fm^{-2} \leq Q^2 \leq 14 fm^{-2}$   
Nucl. Phys. B32(1971)221

W. Hofmann, U. Klein, M. Schulz, J. Spengler, D. Wegener  
Production and Transport of Electrons in a Liquid Argon Chamber  
Nucl. Instr. Meth. 135(1976)151

D. Wegener + CCHK Collaboration  
Observation of Jet Structure in High  $p_T$  Events at the ISR and the Importance of Parton Transverse Momentum  
Nucl. Phys. B127(1977)1

D. Wegener + ABCDHW collaboration  
Charged Particle Multiplicity Distribution in pp Interactions at ISR Energies  
Phys. Rev. D30(1984)528

D. Wegener + ARGUS collaboration  
Observation of  $B^0\bar{B}^0$  mixing  
Phys. Lett. B192(1987)245

D. Wegener + H1 collaboration  
A Measurement and QCD Analysis of the Proton Structure Function  $F_2(x, Q^2)$   
Nucl. Phys. B470(1996)3

D. Wegener + HERA-B collaboration  
Limits for the Central Production of  $\Theta^+$  and  $\Xi^{--}$  in 920 GeV pA Collisions  
Phys. Rev. Lett. 93(2004)212003

M. Bambynek, D. Flühs, U. Qast, D. Wegener, C.G.Soaes  
A high precision, high resolution and fast dosimetry system for beta sources  
applied in cardiovascular brachytherapie  
Med. Phys. 27(4)(2000)662

### Reviews

G. Ebel, A. Müllensiefen, A. Pilkuhn, F. Steiner, D. Wegener, C. Michael, J.L.  
Petersen, M. Roos, B.R. Martin, G. Oades, J.J. De Swart  
Compilation of coupling constants  
Nucl. Phys. B33(1971)317

D. Wegener  
Hadronic Decays of the  $\Upsilon$  -Resonances  
in A. Ali, P. Söding (ed.) High Energy Electron-Positron Physics p. 489-533  
,World Scientific 1988

W. Geist, D. Drijard, A. Putzer, R. Sosnowski, D. Wegener  
Hadronic Production of Particles of Large Transverse Momentum: its  
Relevance to Hadron Structure, Parton Fragmentation and Scattering  
Phys. Rep. 197(1990)264

D. Wegener + ARGUS collaboration  
Physics with ARGUS Phys. Rep. 276(1996)224

D. Wegener  
The Value of International Collaboration Effort  
AAAS-GAAC Colloquium Washington October 15-16,1998 Panel I

A. Birkhofer, J. Grawe, M. Popp, A. Voß, D. Wegener  
Memorandum of German Scientist, on the Planned Phasing-out of Nuclear  
Energy Use in Germany  
Int. Journ. Power Plant Technology 12/99 p 78  
Signed by more than 600 Professors of natural and engineering science

D. Wegener  
Szintillationsdosimeter für die Augentumorthherapie  
Das Magazin Wissenschaftszentrum NRW 11(2000)27

D. Wegener  
Systemevaluation Blaue Liste - Flexibilität ist nur eine Ihrer Stärken  
Leibniz Journal 4(2000)16

D. Wegener  
Forschung an Museen  
Museumskunde 67/2(2002) 112ff

D. Wegener + Sachverständigenkreis „Globale Umweltaspekte“  
Herausforderung Klimawandel  
BMBF 2003

D. Wegener  
Bewährtes Instrument der Qualitätssteigerung - 25 Jahre Evaluation der  
Institute der Leibniz-Gemeinschaft  
Wissenschaftsmanagement Zeitschrift für Innovation 3/07

Dietrich Wegener  
Assessment of research in Germany illustrated by the examination of the 84  
Institutes of the Leibniz Society  
Analysis - Revista di cultura e politico scientifica Anno 8-N.3-4/2006 p 25-30

D. Wegener  
Sociology of the ARGUS collaboration  
Proc. ARGUS - 20 years B-meson mixing 1987 - 2007 p 59 - 82  
DESY 2007