



### Curriculum Vitae

- February 1966  
Abitur at Freie Waldorfschule Kassel
- July 1972  
Diploma in Physics at the Freie Universität Berlin on the influence of acoustic fields on radiation distributions of excited nuclei under the supervision of H. Gabriel.
- March 1977  
Promotion to Dr. rer. nat. at the Freie Universität Berlin. Dissertation on nuclear quadrupole relaxation in liquid metals under the supervision of H. Gabriel.
- April 1977  
to  
October 1977  
Research period at the H. H. Wills Physics Laboratory of the University Bristol, England. Collaboration with R. Evans on thermodynamic properties of liquid metals and alloys.
- November 1977  
to  
April 1980  
Research Assistant in the Dept. of Physics of the University Marburg. Collaboration with B. Movaghar and P. Thomas on hopping transport in disordered semiconductors. Collaboration with F. Hensel and W. Freyland on the thermodynamic properties of liquid metals.
- Since  
April 1980  
Research Assistant in the Dept. of Physics of the Technical University Munich with E. Lüscher and W. Petry. Research on transport and thermodynamic properties of disordered metals and semiconductors. Collaboration with W. Götze on the mode-coupling description of the glass transition.
- January 1985  
to  
December 1985  
Research period at the Institute Max von Laue/Paul Langevin (ILL) Grenoble. Collaboration with Ph. Nozières on many-body theory.
- July 1989  
Habilitation ("second Doctorate", Teaching ability). Dissertation on hopping transport in disordered semiconductors at the Dept. of Physics of the Technical University Munich.
- Since  
January 1990  
Lecturer at the Technical University Munich.
- April 1991  
to  
May 1992  
Lecturer at the University of Augsburg. Research on quantum interferences in hopping transport. Collaboration with P. Hänggi on the path-integral description of complex dynamics in solids.
- January 1993  
to  
December 1996  
Research work on Fractals and critical phenomena. Collaboration with Klaus Mainzer on the philosophical interpretation of quantum and chaos physics.

January 1997 to March 1999	Research work with W. Götze and W. Petry on a Mode-coupling description of the lattice dynamics of strongly anharmonic crystals.
April 1999 to May 1999	Research visit at the Universität Köln. cooperation with Prof. J. Hajdu on the quantum theory of mesoscopic semiconductor structures and quantum chaos.
June 2001	Research visit at the Hebrew University, Jerusalem, Israel. Cooperation with Prof. Z. Ovadyahu and Dr. O. Bleibaum on Hopping Transport and tunneling in Semiconductors.
Oct./Nov. 1999, Nov. 2000 to March 2001 and Feb. 2002	Research visits at the University of Oregon, Eugene, OR, USA. cooperation with Prof. D. Belitz on the field theoretical description of vibrations in disordered solids.
September 2003; September 2004; Aug/Sept. 2005; Aug 2006	Research visits at the Advanced Photon Source, Argonne National Lab. cooperation with Dr. Harald Sinn on liquid dynamics and the metal-nonmetal transition. Work on the vibrational dynamics of disordered solids.
Juni 2006	Nomination as an extraordinary Professor
Nov. 2008 to March 2009	temporarily chair of theoretical physics in place of Prof. K. Binder, Univ. Mainz
Since April 2009	senior scientist and extraordinary professor at University Mainz Mainz
June 2011	Retirement
Fall 2013	Guest Professor at KAUST, Saudi Arabia. Scientific collaboration with Prof. A. Fratalocchi and Prof. G. Schuster on wave propagation in composite materials. Graduate Course on Field-theoretical description of disordered materials.
Oct 2014 - March 2015	Guest Scientist at the University of Innsbruck, Austria, Scientific collaboration with Prof. T. Franosch on soft-matter modelling.
June - July 2016	Guest Scientist at the University of Perugia, Italy, Scientific collaboration with Prof. A. Orecchini on visco-elastic properties of water
2006 until now	Extended collaborations and research visits at the university "La Sapienza", Rome and IIT Rome. Cooperation with Prof. G. Ruocco, Prof. T. Scopigno, and Dr. M. Leonetti on the theory of waves in disordered systems.
2015 until now	Collaboration with Prof. F. Hensel and Dr. W. C. Pilgrim, University of Marburg, Germany on the equation of states of expanded metals
2018 until now	Collaboration with Prof. A. Zeitler at the University of Cambridge, UK on anomalous-Kerr-effect data in glasses, granted by the British Counsel
2018 until now	Collaboration with Prof. Anne Tanguy, INSA Lyon, France, on the use of finite-element simulations for the description of disordered solids and soft matter
2018 until now	Collaboration with Prof. Jie Zhang, Jiao Tong Technical University Shanghai, on the interpretation of the vibrational properties of two-dimensional macroscopic granular materials
2019 until now	Collaboration with Prof. Bodil Holst, University of Bergen, Norway, on the interpretation of inelastic helium scattering from disordered two-dimensional SiO <sub>2</sub> layers
2019 until now	Collaboration with Prof. L. Wondraczek, University of Jena, Germany on the interpretation of Raman and specific heat data in glasses