

CURRICULUM VITAE

Dr hab. Marek Wolf

Personal:

Born July 10-th, 1956, Nowa Ruda, Poland

divorced

Children: daughters Magdalena, born 20.07.1993 and Marta, born 24.04.1999

Nationality: Polish

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Study:

Department of Physics, University of Wrocław, 1975-78

Degrees:

- **M.Sc. in Physics, thesis:** *The Virasoro Algebra in the String Theory*, University of Wrocław, 1978, supervisor Prof. Z. Haba
- **Ph.D. in Physics, thesis:** *Central Charges in the Supersymmetric Quantum Field Theory*, University of Wrocław, 1982, supervisor Prof. J.T. Łopuszanski
- **Habilitation thesis:** *Application of multifractality in the number theory and fractal growth phenomena*, University of Wrocław, 1993

Employment:

- Post-graduate study in Theoretical Physics, University of Wrocław, 1978-1981
- Research Assistant, Institute of Theoretical Physics, University of Wrocław, 1981-1983
- Adjunct, Institute of Theoretical Physics, University of Wrocław, 1983 — present

Awards:

- Polish Physical Society Award for M.Sc. thesis, 1978
- M.Smoluchowski Award of the Polish Academy of Sciences for good studies, 1978
- Ministry of Education Award for Ph.D.thesis, 1983
- Rector of University of Wrocław Award, 1981, 1982, 1987, 1989, 1990, 1994

Speaker (selected):

- Winter School of Theoretical Physics, Karpacz, Poland, February 1981
- Nonperturbative Methods in Quantum Field Theory, Siofok, Hungary, September 1986
- Universalities in Condensed Matter Physics, Les Houches, France, March 1988
- Recent Developments and Applications in Mathematics and Computer Science, ICTP, Trieste, Italy, May 1990
- Physics of Inhomogeneous Materials, ICTP, Trieste, Italy, June 1991 (invited speaker)
- Multifractal Analysis, Utrech, Holland, May 1996
- XX Journées Arithmétiques, Limoges, France, September 1997
- Symposium on Stochastic Processes in Chemistry, Cancun, Mexico, November 1997 (invited speaker)
- Conference on Computational and Elementary Aspects of Number Theory, Bordeaux, France, May 1998
- NATO ARW, Budapest 1999 (invited lecturer)

Other conferences attended (selected):

- NATO Advanced Study Institute, Bad Honnef (Germany), 1980
- Schools on Supergravity and Supersymmetry, ICTP, Trieste, 1981, 1982, 1984, 1986, 1987
- MECO, Hungary 1990 (posters presented)
- Dynamics Days, Düsseldorf 1990, (posters presented)
- Dynamics Days, Rydzyna, 1992, (poster presented)

- MECO, Slovakia, 1994, (poster presented)
- Dynamics Days, Budapest 1994, (poster presented)
- Multifractal Analysis, Utrecht 1996 (poster presented)
- MECO, Trieste 1998, (poster presented)
- MECO, Wirttemberg, 1999, (poster presented)

Visiting Scientist:

- University of Florence, Italy, November 1983 and November 1984
- Institute of Theoretical Physics, Trieste, Italy, August 1990
- Center for Polymer Studies, Boston University , March-July 1991
- BiBoS, Bielefeld University (Germany), September 1992
- Center for Polymer Studies, Boston University, April-June 1993
- Centro de investigaciones teoricas, UNAM, Mexico City, July 1996, November–December 1997
- Newton Institute for Mathematical Sciences, Cambridge University, November 1997

Grants received: 1992 and 1993-1995 : individual grants from Polish Scientific Committee, 1994–1997 : principal investigator, grant from Polish Scientific Committee.

Research interests: In the late seventies and in the early eighties I was working on strings and supersymmetry. For short time I was interested in stochastic quantization. In 1984 I bought the famous ZX Spectrum computer and I turned from quantum field theory to fractals and chaos. In particular I was interested in Cellular Automata, Diffusion–Limited Aggregation, fractal growth processes, multifractality, Self-Organized Criticality and recently in the distribution of prime numbers and Riemann Hypothesis. I am writing my programs in Fortran, Pascal and I am familiar with Reduce, PARI and Maple. In my early works on DLA i wrote several routines in assembly language.

Teaching Experience: For many years I was teaching students at University of Wroclaw. I gave among others courses on quantum mechanics, quantum field theory, fractals and chaos, algorithms and data structures. Supervisor of six master degree thesis. I have been interviewer of applicants for physical, mathematical and computer sciences studies for many years.

Other experience: Co-organizer of the XXXI Karpacz Winter School. Referee of two Ph.D. thesis and three habilitation thesis. Many times I was a grant reviewer for the Polish Scientific Committee.

References:

1. Prof.H.E.Stanley, Physics Department, University of Boston, 590 Commonwealth Avenue, Boston, MA 02215, e-mail: hes@bu.edu, fax: (1 617) 353 3783
2. Prof. W. Narkiewicz, Institute of Mathematics, University of Wroclaw, e-mail: narkiew@math.uni.wroc.pl
3. Prof. D.Stauffer, Institute of Theoretical Physics, W-5000 Köln, e-mail: stauffer@thp.uni-koeln.de