



Personal Data

Born: March 17, 1954, in Čeladná, Czechoslovakia
Marital status: married, wife Dana, son Ondřej
Citizenship: Czech Republic
Domicile: Praha, Czech Republic
Affiliation: Institute of Physics, Academy of Sciences of the Czech Republic
(IoP AS CR), Na Slovance 2, CZ-182 21 Prague
Present position: Senior Scientist / Principal Researcher
Tel/Fax/E-mail: +420-26605 2153/+420-286588605/janis@fzu.cz
ResearcherID: [A-8379-2011](#)

Degrees / Education

2003 Prof. (Full Professor of Theoretical Physics), Charles University in Prague
2001 Doc. (Associate Professor of Theoretical Physics), Charles University in Prague
1996 DrSc. (DSc Degree), Charles University in Prague
1984 CSc. (PhD Degree), Charles University in Prague
1982 RNDr. (MSc.) Charles University in Prague
1979 - 82 Graduate studies at the Mathematical Institute of the Czech. Acad. Sci., Prague
Specialization: Mathematical Methods in Physics
1973 -78 Study of theoretical physics at Charles University in Prague

Professional Development / Affiliation

2008 -12 Head of Condensed Matter Division/Deputy director, IoP AS CR
2000 --17 Head of Condensed Matter Theory Department, IoP AS CR
1994 -- Senior Scientist, IoP AS CR
1994 -- Associate Lecturer, Faculty of Mathematics and Physics, Charles University in Prague
1990 - 94 Research Associate at the Technical University Aachen (RWTH), FRG (D. Vollhardt)
1983 - 90 Research Associate at the Institute of Physics of the Czech. Acad. Sci., Prague

Research Experience

1994 -- Theory of strongly correlated electrons, statistical mechanics of quantum many-body systems, thermodynamic and dynamical effects due to electron-electron interactions and disorder, itinerant magnetism, X-ray edge problem, quantum phase transitions in itinerant systems, non-Fermi-liquid behavior, Hubbard and Kondo systems, Feynman many-body diagrams, development of diagrammatic methods for vertex functions of strongly correlated systems, parquet equations, electrical conductivity and charge diffusion in disordered systems, theory of Anderson localization, mean-field theory of spin glasses and other frustrated systems, superconductivity of nanosystems
1990 – 94 Dynamical Mean-Field Theory for strongly correlated and disordered fermion systems
1983 – 90 Applications of field-theoretical and functional-integral methods in statistical mechanics and condensed-matter physics

Teaching Experience / Students Supervision

1994 -- *Statistical Mechanics* (3/2-one-semester course, annually), Charles University
Quantum Many-Body Physics, (2/0-two-semester course, biannually), Charles University
Renormalized Theory of Phase Transitions (2/0-one-semester course, biannually), Charles University

- 1995** *Path Integral Method* (0/3-one-semester seminar), Charles University
2007 *Quantum Many-Body Physics* (2x two-week intense course for PhD students), Uppsala University, Sweden
2000 -- **5** graduated PhD students, **4** defended master theses, **1** defended bachelor thesis,
2013 -- *Thermodynamics* (3/2-one-semester course, biannually), Charles University

Research Output / Acceptance

- **89** original research papers in impacted peer reviewed journals
- **15** contributions to published proceedings of international research conferences
- **Web of Science:** 94 records, 990/770 citations/without self-citations, 39 coauthors (2.1 avg. authors/paper), h-index = 17
- **6** national and **2** collaborative international grants (principle investigator)

Memberships / Science community work

- Member of the Czech Physical Society
 - Regular referee to APS journals Phys. Rev. Lett. and Phys. Rev. B (Outstanding Referee 2009), Journal of Physics: Condens. Matter
- 2008-12** Science Council of the Faculty of Mathematics and Physics, Charles University
1998-2012 Science Council of the Institute of Physics, AS CR
- Organizer of 3 international workshops (1999, 2001, 2002)
- 2000-2004** Steering Committee of ESF project SPHINX – Statistical physics of glassy and non-equilibrium systems

Language skills

- English, German – fluent
- Russian, French, Italian, Polish – communicative

Long-Term Visits

- 11/2014-06/2015** Fulbright Scholar, Louisiana State University, Baton Rouge, USA
11/2008 Isaac Newton Institute for Mathematical Sciences, Cambridge University, UK
02,06/2007 Angstroem Laboratory, Uppsala University, Sweden
11/2002 Kavli Institute for Theoretical Physics, UC Santa Barbara, USA
11/1999 University of Augsburg, FRG (D. Vollhardt)
05-08/1999 Visiting professor, University of Bremen, FRG (G. Czycholl)
10-12/1996 Humboldt Fellow, University of Augsburg, FRG (D. Vollhardt)
03-06/1996 Visiting scientist, ISSP, University of Tokyo, Japan (K. Ueda)
11/1991 Visiting scientist, Florida University, Gainesville, USA (D. Vollhardt)
05-10/1990 Humboldt Fellow, University of Dortmund, FRG (G. Czycholl and H. Keiter)
01-04/1990 Research Associate, RWTH Aachen, FRG (G. Czycholl)