

Curriculum Vitae

Jerzy Szwed, Professor of Physics, Ph.D.

Born: June 15, 1950, Kraków, Poland

Marital status: married, 2 children

Education:

1992	Professor, state title
1982	Habilitation in Physics, Jagiellonian University, Kraków, Poland
1976	Ph.D. in Theoretical Physics Jagiellonian University, Kraków, Poland
1973	M.S. in Theoretical Physics Jagiellonian University, Kraków, Poland

Positions (international collaboration in bold):

2012 - present	Head of Theoretical Physics Departments, Jagiellonian University
2009-2010	Undersecretary of State, Deputy Minister of Science and Higher Education in Polish Government
2005-2009	Dean of the Faculty of Physics, Astronomy and Applied Computer Science, Jagiellonian University
2002-2003	Dean of the Faculty of Mathematics, Physics and Computer Science
1992- present	full professor, Jagiellonian University
2003-2005	Centre de Physique Théorique, CNRS, Marseille, France, EU Grant Inco-2, project leader, 18 months
1995-1996	Brookhaven National Laboratory, USA, Fulbright Senior Fellow, 12 months
1994-1996	DESY Laboratory, Hamburg, Germany, Volkswagen Stiftung Grant Fellow, together 6 months

1992-1993	Foundation for Computer Science Education, Initiator and first Head of the Advisory Board
1990-1993	Director of the Institute of Computer Science, Jagiellonian University
1985-1986	Universite de Nice, Centre de Physique Théorique, CNRS, Marseille, France, visiting professor, 12 months
1978-1979	Max Planck Institut fur Physik, Munich, Germany, postdoctoral position, 15 months

Other experience abroad:

several short term visits (up to 3 months, each time lecture):

CERN Geneva, Switzerland; Eötvös University, Budapest, Hungary; Niels Bohr Institute, Copenhagen, Denmark; SLAC Laboratory, Stanford, USA; Louisiana University, USA; University of Texas, Austin, USA; Fermi National Laboratory, Batavia, USA; University Paris VI and XI, France; University of Montpellier, France; University of Lyon, France; Capetown University, South Africa; University of Santiago de Compostela, Spain; Numerous congresses and symposia.

Publications:

Ca 60 scientific publications.

Example publications:

1. **Hyperon Polarization at High-Energies** Phys.Lett. 105B (1981) 403-405,
2. **The “square-root” of the Dirac equation within supersymmetry**, Phys. Lett. B181, 305 (1986), Europhys. Lett. 69, 189 (2005); Acta Phys. Polon. B37, 455 (2006).
3. **On the electron structure function**, W. Slominski and J. Szwed, Phys.Lett. B387 (1996) 861-866, Eur.Phys.J. C22 (2001) 123-127, Eur.Phys.J. C39 (2005) 55-59.
4. **Possible new wave phenomena in the brain**, J. Szwed, Acta Phys. Polon. B41, 1991 (2010).
5. **Measurement of the electron structure function $F_2(e)$ at LEP energies**
By: Abdallah, J.; Abreu, P.; Adam, W.; et al., DELPHI Collaboration, **PHYSICS LETTERS B** Volume: 737, 39-47 (2014).
6. **Scale-Free Fluctuations in Behavioral Performance: Delineating Changes in Spontaneous Behavior of Humans with Induced Sleep Deficiency**
By: Ochab, Jeremi K.; Tyburczyk, Jacek; Beldzik, Ewa; et al.
PLOS ONE Volume: 9 Issue: 9 Article Number: e107542
Published: SEP 15 2014.

Scientific projects:

1. Polish Committee for Scientific Research (KBN) – head of 3 grants in the years 1992-2002

2. FP5: Head of the Centre of Excellence in Information Technologies “Computer Physics – Interdisciplinary Research and Applications” IST-200137259 COPIRA),
3. FP5: Head of the EC project INCO-2 Strategic Action on Training and Excellence “Theoretical and computer physics – research and interdisciplinary education”, (ICA1-CT-2002-70013-14, 2003-2006),
4. FP6: Investigator in M. Curie Fellowships for Transfer of Knowledge “Correlations in Complex Systems” (MTKD-CT-2004-517186 COCOS),

Administrative activity in IT:

- 1990-1993 Director of the Institute of Computer Science,
- 1992 Co-founder of the Foundation for Computer Science Education,
 first Head of the Advisory Board,
- 2002-2005 Head of the European IT Excellence Centre COPIRA
 (within the 5th EU Framework Programme),
- 2005-2009 Dean of the Faculty of Physics, Astronomy and Applied Computer
 Science,
- initiator of the field of study “applied computer science”, first Head of the Programme Council,
 - co-initiator of the European Academy of Games, first Head of the Advisory Board,
 - co-organizer of the European Centre of Games in Krakow Technology Park, meeting platform of Polish game production companies

Web page: <http://th-www.if.uj.edu.pl/acm/szwed.html>