# CURRICULUM VITAE

## PERSONAL DATA

*Name:* Schram, Zsolt

*Nationality:* Hungarian

*Institution:* Department of Theoretical Physics, University of Debrecen, H-4010 Debrecen, PO Box 5, Hungary

*Position:* associate professor (Reader), physicist

## ACADEMIC DEGREES

2003 Habilitation in physics, University of Debrecen, Hungary

1998 C.Sc., Hungarian Academy of Sciences, Budapest, Hungary *Subject:* High energy hadronic interactions and quark confinement

1987 Ph.D., Dr.Univ., Kossuth University, Debrecen, Hungary *Subject:* Nuclear reactions, *Grade:* summa cum laude

1983 Diploma in physics (M.Sc.), Kossuth University, Debrecen, Hungary, *Subject:* General and Nuclear Physics

## UNIVERSITY EDUCATION

1984-87 Doctoral fellowship of the Hungarian Academy of Sciences, Institute of Experimental Physics, Kossuth University, Debrecen, Hungary; *Fast neutron reaction cross sections, nuclear reaction models*

1978-83 Undergraduate and graduate student, Kossuth University, Debrecen, Hungary; *Basic and advanced physics courses, nuclear physics*

CARRIER HISTORY

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|---|---|
| 07/2003 - present | Associate professor (Reader), Department of Theoretical Physics, University of Debrecen, Hungary |
| 02/1993 - 06/2003 | Assistant professor (University lecturer), Department of Theoretical Physics, Kossuth University, Debrecen, Hungary |
| 01/1992 - 01/1993 | Royal Society postdoctoral fellow, Department of Theoretical Physics, University of Oxford, Oxford, United Kingdom |
| 03/1988 - 12/1991 | Scientific associate, Department of Theoretical Physics, Kossuth University, Debrecen, Hungary |
| 08/1987 - 02/1988 | Military service |
| 09/1984 - 02/1988 | Doctoral fellowship, Institute of Experimental Physics, Kossuth University, Debrecen, Hungary (suspended during the military service) |
| 09/1983 - 08/1984 | Research assistant, Institute of Experimental Physics, Kossuth University, Debrecen, Hungary |

RESEARCH FIELDS AND RESEARCH ACTIVITY

*Recent research interest:*

Lattice field theory, nonperturbative aspects of field theories
Quark confinement, topology of gauge fields
Thermodynamics of high energy collisions

*Research in the past:*

Dynamical string model for hadronic interactions
Nuclear reaction models
Measurement of neutron reaction cross sections
In-beam nuclear electron spectroscopy

*48 scientific publications, 1 lecture notes, 2 dissertation*
*41 scientific talks; participant of 28 international and 6 national conferences*
*more than 130 citations*

Research Grants and Projects (selected):

Leader of the "OTKA F14276", "OTKA T32501" (Hungarian National Research Fund) research projects (*Nonperturbative phenomena in QCD*, between 1994-1996 and 2000-2003)

Coordinator and leader of projects for developing the Laboratory for Scientific Computation, University of Debrecen (*Compaq Alpha Server Competition, OTKA infrastructural project, IIF, FEFA and TEMPUS projects*)

## TEACHING ACTIVITY

*Department of Experimental Physics, University of Debrecen, 1983 - 1988:*
Problems classes in Basic Physics I-II, Experimental Physics I-II lectures, Basic Physics Laboratory Excercises I-II, Radioactivity Laboratory Excercises, Lectures on Experimental Nuclear Physics (26 semester courses)

*Department of Theoretical Physics, University of Debrecen, 1989 - present:*
Theory of Relativity lectures, Theoretical Mechanics lectures, Problems classes in Theoretical Mechanics, in Electrodynamics, in Quantum Mechanics, Seminars in Theoretical Physics, Symmetries in Physics lectures, Dynamical Meteorology lectures, Problems classes in Dynamical Meteorology (alltogether more than 100 semester courses);
Supervising 8 students (MSc, PhD thesis) between 1992 - 2005

## PRIZES

2002 Békésy György Postdoctoral Fellowship

1999 Bolyai János Research Fellowship

1983 Medallion of the Faculty of Natural Sciences of Kossuth University

1981 $2^{nd}$ prize on the "Ortvay Rudolf" (nation-wide) Physics Problem Solving Competition

1981 Republic Scholarship (for two years)

1975 $2^{nd}$ prize on the "Arany Dániel" National Competition for Students on mathematics

## ACTIVITY IN SCIENTIFIC SOCIETIES AND OTHER SCIENTIFIC ACTIVITIES

Member of the Roland Eötvös Physical Society (ELFT), 1983-

Member of the Nuclear Physics Experts Committee of the ELFT, between 1994-98

Member of the Public Body of the Hungarian Academy of Sciences, since 2001

Organizer of "DEBLAT02", $12th$ International Workshop on Lattice Field Theory, Debrecen, Hungary, 2002

Co-Organizer of three international summer schools on field theory and particle physics at University of Debrecen, Hungary (1993, 1997, 2000)

Project assistant in the TÁMOP 4.2.1./B-09/1/KONV-2010-0007 project at the University of Debrecen, 2010-2012

Regular referee of research grant applications, PhD and MSc thesises, member of the Physics Doctoral School of University of Debrecen

SCIENTIFIC COLLABORATIONS AND VISITS ABROAD

- Institut für Theoretische Physik, Johann Wolfgang Goethe Universität, Frankfurt am Main, Germany (European Community Scientific Mobility Scheme *1994*, Hungarian Academy of Sciences - Deutsche Forschungsgemeinschaft project, *regularly between 1989-2009*, HIC for FAIR project, *2010-2013*)
- Institut für Theoretische Physik, Technische Universität Dresden, Germany (Hungarian Academy of Sciences - DAAD project; *between 1999-2000*), Herbert Quandt Fellowship (*4 months, 2003*)
- Laboratoire Physique Theorique, Universite Louis Pasteur, Strasbourg, France (BALATON projekt, NATO research grant; *1996, 2000-2001*)
- Center for Computational Physics, Tsukuba University, Japan (visiting professor, *2000, 3 months*)
- Department of Theoretical Physics, University of Oxford, Oxford, United Kingdom (Royal Society Grants; *between 1992-2000*)
- TEMPUS exchange visits *1995-99* (Johann Wolfgang Goethe Universität, Frankfurt/Main, Germany; Universite Louis Pasteur, Strasbourg, France; University of Lisbon, Portugal; University of Kent, Canterbury, United Kingdom)
- Laboratoire de Physique et Electronique, Université de Metz, Metz, France (visiting professor; *1995, 1 month*)
- Institut für Kernphysik, Technische Universität Wien, Vienna, Austria (visiting professor; *1997, 1 month*)
- NATO Advanced Study Institute, *Hot and Dense Nuclear Matter*, Bodrum, Turkey (1993)
- IAEA Training Course on Neutron Physics, Dresden, Germany (1988)
- Erice International School on Nuclear Physics, *Quarks in Hadrons and Nuclei*, Erice, Italy (1987)