

Curriculum Vitae

- Personal Data

Name: Stepanov Rodion Alexandrovich
Position: Senior researcher, Institute of Continuous Media Mechanics RAS,
Perm, Russia
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Born: January 1974
Family status: Married, daughter

- Education, Degrees

2009 Habilitation (Doctor Nauk) in Physics and Mathematics
2000 Ph.D (Kandidat Nauk) in Physics and Mathematics
1997 – 2000 Post-Graduate Studies, Institute of Continuous Media Mechanics
Urals Branch of the Russian Academy of Sciences, Perm, Russia
1991 – 1997 Applied Mathematics and Mechanics Faculty of Perm State Technical
University, Russia, Diploma of a mathematician-engineer in
the field of Applied Mathematics

- Professional Appointments

Laboratory of Physical Hydrodynamics, Institute of Continuous Media Mechanics
Urals Branch of the Russian Academy of Sciences, Perm, Russia:

2004 – Senior researcher
2001 – 2004 Research scientist
1997 – 2001 Junior researcher
1996 – 1997 Laboratory researcher

Perm State Technical University, Scientific faculty:

2010 – Professor
2006 – 2010 Docent

Perm Scientific Center UB RAS:

2011 – Vice-chairman of Presidium

Scientific Research Computer Centrum in the Moscow State University:

1998 – 2000 Researcher

Perm State University:

2005 – 2007 Postdoc position supported by BRHE programm

Newcastle University (UK):

2007 – 2008

Senior Research Associate, the School of Mathematics & Statistics

- Scientific Interests

Fluid Mechanics, Mathematical Physics, Computer science:

- theory of MHD-turbulence, dynamos
- numerical methods in magnetohydrodynamics
- wavelet analysis of astrophysical data

- Research Visits

Feb	2011	Research visitor, Max Planck Institute for Astrophysics, Garching, Germany
Jan	2011	Invited Professor, the Joseph Fourier University, Grenoble, France
Feb	2010	Research visitor, Max Planck Institute for Astrophysics, Garching, Germany
July	2009	Participant of the MHD Program, Université Libre de Bruxelles, Brussels, Belgium
Jan - Feb	2009	Research visitor, Max Planck Institute for Astrophysics, Garching, Germany
Sept	2008	Research visitor, the Joseph Fourier University, Grenoble, France
June - July	2008	Participant of the KITP Program: Dynamo Theory, Santa Barbara, USA
July	2007	Participant of the MHD Program, Université Libre de Bruxelles, Brussels, Belgium
June - July	2007	DAAD fellow, The Max Planck Institute for Radio Astronomy, Bonn, Germany
July	2006	Research visitor, the Joseph Fourier University, Grenoble, France
June	2006	Invited CNRS Professor, Ecole Normale Supérieure, Lyon, France
Nov - Dec	2005	Research visitor, the Joseph Fourier University, Grenoble, France
May - June	2005	Research visitor, The Max Planck Institute for Radio Astronomy, Bonn, Germany
Sep - Dec	2004	Invited researcher, the Joseph Fourier University, Grenoble, France
June - July	2004	Research visitor, The Max Planck Institute for Radio Astronomy, Bonn, Germany
June	2003	Research visitor, the University of Newcastle upon Tyne, Newcastle, UK

April	2003	Research visit, the Kiepenheuer Institute for Solar Physics, Freiburg, Germany
Feb-July	2001	DAAD fellow, the Astrophysical Institute, Potsdam, Germany
Feb-March	1999	Research visitor, the Astrophysical Institute, Potsdam, Germany
April-May	1998	Research visitor, the University of Newcastle upon Tyne, Newcastle, UK

- Teaching Experience

- Preliminary courses of elementary physics for university entrants in a Lyceum #1 (four semesters, 450 hours)
- Lectures of turbulent theory in the Perm State Technical University (one semester, 70 hours)
- Course of the parallel programming methods in the Perm State Technical University (7 semesters)
- Course of nonlinear waves in the Perm State Technical University (7 semesters)

- Habilitation thesis

Magnetic field generation by the turbulent motion of conducting media, 2009.

The contents are the theoretical, numerical and experimental studies of turbulent MHD.

- PhD thesis

Study of structure and generation mechanism of galactic magnetic field, 2000.

The contents are the wavelet analysis of observations and numerical simulations of the dynamo models.

Scientific supervisor: Prof. Peter Frick

- Publications

Number of papers in refereed journals: 36

Number of papers in conference proceedings : 25

List of publication http://www.icmm.ru/~rodion/Download/StepanovR_pub.pdf