

CURRICULUM VITAE

Family name : Bolsinov
First name : Alexey
Date of birth : August 13, 1962
Place of birth : Moscow, Russia
Nationality : Russian
Marital status : Married, have two children
Permanent position : Reader in Mathematics
Permanent professional address : School of Mathematics
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Languages : Russian (native)
English and French

Education

1979-1984 Student, Dept. of Mechanics and
Mathematics, Moscow State University
Diploma in Mathematics with honours, June 1984
1984-1987 PhD student, Dept. of Mechanics and
Mathematics, Moscow State University.
PhD in mathematics, June 1988

Habilitation

April, 1995 Doctor of Sciences in Mathematics, Moscow State University

Occupation

Since February 2006	Reader in Mathematics School of Mathematics Loughborough University
1997-2006	Professor, Chair of Differential Geometry and Applications, Moscow State University Russia
March 2000 - June 2000 Sept. 2001 - Dec. 2001 Sept. 2002 - Dec. 2002	Visiting Professor (professeur associé à temps partiel), Université Montpellier II, France
October 2000- February 2001	Visiting Professor, Universität Freiburg, Germany
1987-1997	Research fellow, assistant professor, associated professor Dept. of Math. and Mech. Moscow State University Russia

Research areas

Geometry, Lie algebras, Dynamical Systems, Integrability.

Professional Memberships

- member of the Dissertation Council of Department of Mechanics and Mathematics, Moscow State University;
- member of the Scientific Council of Moscow State University (2000-2006);
- member of the Expertise Council in Mathematics and Mechanics of the Higher Attestation Committee of the Russian Federation (2002-2005);
- member of the Editorial board of "Regular and Chaotic Dynamics";

Awards

Shuvalov prize for young scientists, Moscow State University, 2000.

Teaching experience

a) Courses of lectures

Loughborough University	
— "Abstract Algebra"	2006 – 2007
— "Linear Algebra"	2007
Moscow State University (Russia)	
— "Differential geometry and topology"	1995 – 2003
— "Lie groups and Lie algebras"	1996 – 2005
— "Riemannian geometry and curvature"	1998
— "Introduction to the topology of dynamical systems"	2002
Universität Freiburg (Germany)	
— "Differential geometry"	2000 – 2001
Université Montpellier II (France)	
— "Analysis", first year	2001
Tokyo University (Japan)	
— "Topological modelling for visualization", minicours	1993

b) Supervision of students and post-graduate students

— at present: supervision of four students (Moscow State University) and three PGR students (Moscow State University (2) and Loughborough University (1))

— six of my PGR students defended PhD theses:

V. Matveev (1997) "Momentum map singularities and topological structure of integrable geodesic flows";

A. Skopenkov (1997) "Criteria for embeddability of compacts and polyhedra into Euclidean spaces";

V. Kalashnikov (1999) "Singularities of integrable Hamiltonian systems";

D. Zotiev (2002) "Fomenko–Zieschang invariant for the Bogoyavlenskii integrable case".

Yu. Brailov (2004) "Geometry of singularities of integrable systems on Lie algebras".

N.Korovina (2006) "Geometry of integrable cases in rigid body dynamics".

Administrative duties

- scientific secretary of the Chair of Differential Geometry and Applications, Moscow State University (1993–2000);
- head of the laboratory of Computer Methods in Natural and Human Sciences (2000–2006).
- member of the Academic Steering Committee of MAGIC consortium (Mathematics Access Grid Instruction and Collaboration), Loughborough University

Research activity

Invited speaker at international conferences, in particular:

- International Topological Conference (Moscow, Russia, May-June, 1996)
plenary talk;
- International Conference dedicated to the 100th birthday of I.G.Petrovskii (Moscow, Russia, May 2001);
- Conference on "Geometry of infinite dimensions and applications to the field theory" (CIRM, Marseille, France, 2002);
- XIIth Conference on Geometrical Methods in Physics (Byalostok, Poland, June 2003), plenary talk;
- Workshop "Contemporary Geometry and Related Topics" (Belgrade, Serbia, May 2002);
- 9th Conference on Differential Geometry and its Applications (Prague, August 2004);
- Summer School and Conference on Poisson Geometry (ICTP, Trieste, Italy, July 2005);
- Conference "Dynamical Integrability" (CIRM, Marseille, France, November 2006);
- Conference "Geometry of Integrable Systems" (Hanoi, Vietnam, April 2007).

Research visits:

Ruhr Universität Bochum (Germany)	December 1993, November 1994
Aizu-Wakamatsu University (Japan)	September 1995
Université Montpellier II (France)	May 1996
Universität Bremen (Germany)	January 1996, November 1998
Max-Planck-Institut, Bonn (Germany)	July 1996, August 1998
Queen's University, Kingston (Canada)	April 1998
Loughborough University (UK)	October 2001, December 2002
Freiburg Universität (Germany)	March – June 2004 October–December 2005
Institut Fourier, Grenoble (France)	March 2005, June 2005

Grants:

Principal investigator of RFFI grants (Russian Foundation for Basic Research):

96-15-96868 (1996 – 1998), 99-01-01249 (1999 – 2001), 00-01-14004 (2000), 01-01-14111 (2001), 00-15-99272 (2000 – 2002), 02-01-00988 (2002 – 2004), 05-01-00978 (2005 – up to now)

Research interests

Symplectic geometry and Poisson manifolds: symplectic and topological invariants of Lagrangian foliations, compatible Poisson structures.

Topology of dynamical systems and integrability: topological entropy, obstructions to integrability, integrable tops, bi-Hamiltonian systems.

Singularities: singularities of the momentum mapping, their invariants and algorithmic classification.

Riemannian geometry and Lie groups: projective equivalence, geodesic flows on Lie groups and homogeneous spaces, symmetries and reduction, Lie pencils.