

Ivan HOROZOV

PERSONAL INFORMATION

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RESEARCH INTERESTS :

Arithmetic Groups, Number Theory, Algebraic Geometry

PUBLICATION AND PREPRINTS :

- 2006** Two dimensional non-commutative modular symbol, preprint, math.NT/0611955
- 2006** Multiple zeta functions, modular forms and adeles, preprint, math.NT/0611849, submitted to Journal of Number Theory
- 2005** Cohomology of $GL(4, \mathbb{Z})$ with non-trivial coefficients, preprint, math.NT/0611847
- 2005** Euler characteristics of arithmetic groups, Mathematical Research Letters, Volume 12, Issue 3, 275-291
- 2003** Euler characteristics of arithmetic groups, preprint, math.GR/0311117, 93p. 2003, submitted (in 2006) to Journal für die Reine und Angewandte Mathematik (Crelle's Journal)
- 1994** Tessellation of four dimensional space by regular polytopes, preprint
- 1993** Cubes in an integer lattice, Mathematics and Informatics, vol. 3, no 3, pp. 85-89

EDUCATION

- 1998-2004** **Ph.D. in Mathematics, Brown University, USA**
Advisor: Prof. Alexander Goncharov
- 1994-1998** **B.Sc in Mathematics, Massachusetts Institute of Technology, USA**
- 1990-1994** National High School for Mathematics and Natural Sciences, Bulgaria,

AWARD

- 2004** Nominated for the Joukowsky Family Foundation Outstanding Dissertation Award for the 2003-2004 acad. year., Brown University

INVITED TALKS :

2007	<i>Acad. Todorov's seminar, Nuclear Institute, Sofia, Bulgaria</i>
	<i>International Conference "60 years Institute of Mathematics and Informatics" Sofia, Bulgaria</i>
2006	<i>Northeastern University, Fall</i>
	<i>Acad. Todorov's seminar, Nuclear Institute, Sofia, Bulgaria</i>
	<i>Sofia University</i>
	<i>Université Paris VI</i>
	<i>London Number Theory Seminar at King's College</i>
2005	<i>Sofia University</i>

OTHER TALKS :

2007	<i>Topology Seminar, Brandeis University, Spring</i>
2006	<i>Everytopic Seminar, Brandeis University, Fall</i>
	<i>University of Durham, UK</i>
2005	<i>University of Durham, UK</i>
	<i>Conference on Quadratic forms, Algebraic Groups and related topics, University of Nottingham, UK</i>
	<i>Max Planck Institute für Mathematik, Bonn, Germany</i>
2004	<i>Max Planck Institute für Mathematik, Bonn, Germany</i>
	<i>AMS meeting at Chapel Hill, special session `Group cohomology in Algebra and Geometry</i>
2003	<i>Acad. Todorov's seminar, Nuclear Institute, Sofia, Bulgaria</i>
2002-2004	<i>Brown University, Providence, RI, USA</i>

SCHOLARSHIPS

- ◆ Marie Curie Research Training Network, 2005-2006
- ◆ Max Planck Institut für Mathematik, Bonn Germany – scholarship 2004/2005
- ◆ Fellowship, fall 1998, spring 1999 and spring of 2004
- ◆ Graduate Teaching Assistantship, fall 1999 to fall 2001 and fall 2002
- ◆ Graduate Research Assistantship, spring 2002
- ◆ Graduate Teaching Fellowship, spring 2003

PROFESSIONAL EXPERIENCE

- Present position:** **Brandeis University,**
*August 2006/
up to now* Lecturer in Mathematics
- Research position:** **University of Durham, Durham, United Kingdom**
*September 2005/ June
2006* Position: Research Associate, Marie Curie Research Training Network,
Arithmetic Algebraic Geometry Network
- Research position:** **Max Planck Institut für Mathematik, Bonn, Germany**
*September 2004
/August 2005* Position: Post-doctorate

TEACHING EXPERIENCE

- Brandeis University**
- SUPERVISION OF GRADUATE STUDENTS:
1. Zhenbin Luo, 2006-2007; topic: Tame symbols for n-dimensional varieties;
 2. Alexander Charis 2006-2007: -topic: Orbifold Euler characteristic of arithmetic unitary groups;
 3. Florian Klössinger (MSc) Fall 2007; – topic: Class Field Theory;
- COURSES:
- Introduction to Number Theory, Lecturer, Fall 2007
 - Commutative Algebra, Lecturer, Fall 2007
 - Algebraic Topology – II, Lecturer, Spring 2007
 - Algebraic-Geometry - II, Lecturer, Spring 2007
 - Algebraic-Geometry - I, Lecturer, Fall 2006
 - Calculus of several variables, Lecturer, Fall 2006
- Brown University:**
- Linear Algebra, Teaching Fellow, Spring 2003, Fall 2003,
 - Calculus I, Teaching Assistant, Fall 2000,
 - Calculus II, Teaching Assistant, Fall 1999, Spring 2000, Spring 2001, Fall 2001, Fall 2002

OTHER SCHOLARLY ACTIVITIES

Everytopic Seminar, Brandeis University – organizer, Fall 2007

LANGUAGES

Bulgarian – native ; **English** – fluent ; **Russian** – very good work and communication knowledge ; **German, French** – working knowledge ;