

# Curriculum Vitae.

*Mikhail Mazin*

## Present Status/Degrees.

- Ph.D., Mathematics, University of Toronto (supervisor — Prof. A. Khovanskii), 2005-present;
- M.Sc., Mathematics, Moscow State University (supervisor — Prof. S.M. Gusein-Zade), 1999-2004.

## Accepted papers.

- **Mazin, M.** (2009) Geometric Theory of Parshin's Residues. Math. Reports of the Canadian Academy of Science. Accepted on 13 October, 2009. 13 pages.

## Preprints.

- **Mazin, M.** (2009) Geometric Theory of Parshin's Residues II. Toric Neighborhoods of Parshin's Points. arXiv:0910.2529v1 [math.AG].(PhD thesis)
- **Mazin, M.** (2007) Geometric Theory of Parshin's Residues I. Coboundary Operators for Stratified Spaces and the Reciprocity Law for Residues. arXiv:0707.3748v2 [math.AG].(PhD thesis)

## Invited talks.

- Geometric Theory of Parshin Residues, Lie Groups seminar, Cornell University, Ithaca, 30 October, 2009;
- Geometric Theory of Parshin Residues, Southern Ontario Groups and Geometry Workshop, Fields Institute, Toronto, 2009 (North American Conference);
- Leray operators for Stratified Spaces and Reciprocity Law for Residues, Seminar on Arithmetic Algebraic Geometry, Steklov Mathematical Institute, Moscow, Russian Federation, 30 April 2009;
- Resolution of singularities for flags of varieties, toric neighborhoods of Parshin points and residues, Seminar on Topology of Singularities, Moscow State University, Moscow, Russian Federation, 23 April 2009;

## Conference presentations.

- Geometric Theory of Parshin Residues, Singularities in Aarhus, University of Aarhus, Denmark, 2009;

- Leray-type Operators for Stratified Spaces and the Parshin's Reciprocity Law for Residues, Workshop on Topology of Stratified Spaces, MSRI Berkeley, 2008.
- Whitney Stratifications and a Variant of the Leray Theory for Singular Analytic Varieties, Summer School "Arrangements, local systems and Singularity theory", Istanbul, 2007.
- Whitney Stratifications and a Variant of the Leray Theory for Singular Analytic Varieties, Graduate Student Topology Conference, Chicago, 2007.

**Conferences, Workshops and Schools attended.**

- Southern Ontario Groups and Geometry Workshop, Fields Institute, Toronto, 2009;
- Workshop "Singularities in Aarhus", Aarhus, Denmark, 2009;
- Summer School in Geometric Representation Theory and Extended Affine Lie Algebras, Ottawa, 2009;
- Workshop on Topological Field Theories, Northwestern University, 2009;
- Workshop on Topology of Stratified Spaces, MSRI Berkeley, 2008;
- Summer School "Arrangements, local systems and Singularity theory", Istanbul, 2007;
- Graduate Student Topology Conference, Chicago, 2007;
- Lie Algebra Workshop, Ottawa, April 2007;
- Summer School in Tropical Geometry, Paris, 2006;
- Advanced School and Workshop on Singularities, Trieste, 2005.

**Selected seminar talks.**

- Parshin Residues via Resolution of Singularities. Toric neighborhoods of flags of algebraic varieties, Algebra and Geometry Seminar, University of Toronto, 15 October 2009;
- Toric neighborhood of a Parshin's point for surfaces, Algebra and Geometry Seminar, University of Toronto, 24 October 2008;
- Picard-Lefschetz Formula and the Intersection Matrix of an Isolated Singularity, Cool Stuff Seminar, University of Toronto, two talks, 16 June and 13 August 2008;

- Parshin's Residues From the Geometric Point of View, Algebra and Geometry Seminar, University of Toronto, series of three talks: 16,23 and 30 November 2007;
- Whitney Stratifications and the First Homotopy Lemma, Graduate Student Seminar, University of Toronto, 29 March 2007;
- Topology of the Normalizations of Analytic Varieties, Algebra and Geometry Seminar, University of Toronto, 12 December 2006;
- Basis of the Cohomology Ring of a Toric Manifold and the Mixed Volume, Algebra and Geometry Seminar, University of Toronto, 31 October 2006.

**Awards.**

- Ontario Graduate Scholarship, 2009-2010;
- University of Toronto Travel Grant, 2008;

**Teaching experience.**

1. Instructor, University of Toronto:
  - MAT224 (Linear Algebra II), summer 2008;
  - MAT235 (Calculus II), 2008-2009.
2. Teaching Assistant, University of Toronto, 2005-2008; Worked as TA on the following courses: Calculus I, Calculus II, Differential Equations, Differential Geometry, Complex Analysis.
3. Other:
  - Teaching Math Circle for high school students, University of Toronto at Mississauga, 2008-present.
  - Teaching advanced mathematical classes in high school, Gymnasium 1543, Moscow, Russia, 2001-2005;
  - Summer Schools for high school students, (Kostroma, Puzhino) Russia, 2001-2005;