

Vladimir Medvedev

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Research Interests

Geometric Analysis and Differential Geometry.

Education

PhD student, Université de Montréal, September 2016-July 2020

- Supervisor: I.V. Polterovich

M.Sc. in Mathematics, Independent University of Moscow, May 2016

- Thesis: "A Solid Torus with Rigid Steklov Spectrum"
- Supervisor: A.V. Penskoi

Specialist in physical engineering, Baumann State Technical University, June 2012

- Thesis: "Settlement-Experimental Researches of VVER-Type Reactors"
- Supervisor: E.B. Koposov

Publications and preprints

Vladimir Medvedev. "Degenerating sequences of conformal classes and the conformal Steklov spectrum." Preprint arXiv:2004.13776 (2020).

Mikhail Karpukhin and Vladimir Medvedev. "On the Friedlander-Nadirashvili invariants of surfaces." Preprint arXiv:1901.09443 (2019). Submitted to *Mathematische Annalen*.

Donato Cianci, Mikhail Karpukhin, and Vladimir Medvedev. "On branched minimal immersions of surfaces by first eigenfunctions." *Annals of Global Analysis and Geometry* 56.4 (2019): 667-690.

Teaching publication

Hussin, Véronique, Medvedev, Vladimir, Poliquin, Guillaume and Alina Stancu. A Problem Book in Linear Algebra: Exercices Supplémentaires du Cours MAT1600: Algèbre Linéaire. Université de Montréal, Département de Mathématiques et de Statistique.

Selected Seminar Talks

Conformal spectra, moduli spaces and cobordisms (in Russian), Spectral geometry seminar, Independent University of Moscow. (May 2020).

On the Friedlander-Nadirashvili invariants of surfaces-II, Spectral geometry seminar, Independent University of Moscow. (June 2019).

On the Friedlander-Nadirashvili invariants of surfaces-I, Spectral geometry seminar, Independent University of Moscow. (May 2019).

Conformal spectrum, minimal immersions and the Friedlander-Nadirashvili invariants, Seminal of laboratory of algebraic geometry, Higher School of Economics (June

2019).

On the Friedlander-Nadirashvili invariants of surfaces-II, Spectral geometry seminar, Université de Montréal (March 2019).

On the Friedlander-Nadirashvili invariants of surfaces-I, Spectral geometry seminar, Université de Montréal (October 2018).

On the first Friedlander-Nadirashvili invariant of surfaces, Spectral geometry seminar, Independent University of Moscow. (August 2018).

A solid torus with rigid Steklov spectrum, Spectral geometry seminar, Independent University of Moscow. (April 2016).

Honors and Awards

- Bourse de fin d'études doctorales, 2019 (fall) - 2020 (winter)
- ISM Scholarship, 2017 (winter) - 2019 (winter)
- R.L. Dobrushin Fellowship for students, 2013 (winter) - 2014 (fall)
- The third prize to the Moscow Students Mathematical Olympiad, 2007
- The third prize to the All-Russian Students Mathematical Olympiad, 2007

Teaching Experience

Instructor, Differential Calculus, Université de Montréal, Montreal: Fall 2019.

Teaching Asistant, Linear Algebra, Université de Montréal, Montreal: Winter 2020, Fall 2019, Winter 2018, Fall 2018.

Teaching Asistant, Discrete Mathematics, Université de Montréal, Montreal: Winter 2020.

Teaching Asistant, Vector and Linear Algebra, Université de Montréal, Montreal: Fall 2018.

Teaching Asistant, Analysis-I, Université de Montréal, Montreal: Summer 2020, Fall 2017.

Teaching Asistant, Geometries, Independent University of Moscow, Moscow: Winter 2016.

Teaching Asistant, Differential Geometry, Independent University of Moscow, Moscow: Winter 2016.

Teaching Asistant, Calculus on Manifolds, Independent University of Moscow, Moscow: Fall 2015.

Teaching Asistant, Topology-I, Independent University of Moscow, Moscow: Winter 2013.

Teaching Asistant, Algebra-III, Higher School of Economics, Moscow: Fall 2013.

Languages

Russian (native speaker), English (fluent), French (fluent), German (basic), Spanish (basic)