Nikita Kalinin

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CONTACT INFORMATION

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CITIZENSHIP STATUS

Date and place of birth : May 6, 1988, Russian Federation
Citizenship : Russia

INTERESTS

Tropical geometry, economics, bioinformatics, education.

EDUCATION

Université de Genève, Section de mathématiques, Geneva, Switzerland

Ph.D. Student, March 2011 (expected graduation date : March 2016)

- Thesis topic : "Tropical contact geometry"
- Advisor : G.Mikhalkin

St.Peterburg State University, St. Petersburg, Russian Federation

Master degree (Specialist), Math, June, 2005-2010

High school 239 specialized in Physics and Mathematics, St. Petersburg, Russian Federation

Student, 2003-2005

HONORS AND AWARDS

Gold medal at the International Mathematic Olympiad in Mexico, 2005
Silver medal at the SEEMOUS olympiad in Cyprus, 2007

INDUSTRIAL EXPERIENCE

GGA Software, St. Petersburg
Programmer and mathematician, 2008 - 2011. I used to develop software on Java, C++, Python, etc ; and consulted programmers about statistics and biology.

LANGUAGES

English and French – working proficiency, Russian – mother tongue.

TEACHING EXPERIENCE

Geneva University, Geneva
Analyses 1, Complex Analysis (assistant ; in French) (2012)
Characteristic classes (assistant ; in English) (2013)
Méthode élémentaire (responsable ; in French) (2014-2015)

PhysMathClub, PDMI, St. Petersburg, Russia
"Introduction to tropic geometry", 2007
"Differential topology" 2010

High school 239 specialized in Physics and Mathematics, St. Petersburg
Tutor of math circle, 2005 - 2011
Organizer of St.Petersburg math tournament for junior schoolchild, 2006-2010

PAPERS

N. Kalinin, Construction of the Alexander polynomial by braid action on the homology of some local system (in Russian) `http://mathcenter.spb.ru/nikaan/diplom.pdf`.

(submitted) N. Kalinin, Construction of the Alexander polynomial by braid action on the homology of some local system (translation to English), arXiv :1311.2849

(submitted) N. Kalinin, The Newton polygon of a planar singular curve, arXiv :1306.4688

N. Kalinin, Tropical approach to Nagata's conjecture in positive characteristic, arXiv :1310.6684

N. Kalinin, M.Shkolnikov, Tropical curves in 2-dimensional sandpile model, http ://arxiv.org/abs/1502.06284

Invited talks

13.12.2013, " Tropical approach to Nagata's conjecture", Seminari de Geometria Algebraica Universitat de Barcelona/Universitat Politécnica de Catalunya.

18.03.2014, "Tropical approach to Nagata's conjecture in positive characteristic", Complex-algebraic aspects of tropical geometry, Centre Interfacultaire Bernoulli, Lausanne.

11.04.2014, "Tropical geometry in questions around Nagata's conjecture", Séminaires de l 'équipe Géométrie, Université de Savoie.

13.02.2015, "Tropical geometry in Nagata's conjecture and sandpile models", colloquium talk, CUSO, Lausanne.

30.03.2015, "Tropical legendrian curves", Tropical Geometry in Europe, Technische Universität Berlin.