

Mikhail Shkolnikov, Curriculum Vitae

Nationality: Estonian, Russian; **Date of Birth:** 4.10.1991

Education

University of Geneva

PhD in mathematics, June 2017 (Expected)

Master degree in mathematics (excellence master fellowship), 2013

Advisor: Grigory Mikhalkin

Research interests: Geometry, Topology, Combinatorics, Mathematical physics

Teaching assistant at University of Geneva

Poisson Geometry and Quantization, 2017

Topological aspects in Algebraic Geometry, 2016-2017

Geometric Topology, 2015

Statistics on R, 2013-2016

Computational programming for mathematicians, 2013-2014

Real Algebraic Geometry, 2013

Publications

N. Kalinin, M. Shkolnikov, *Tropical curves in sandpiles*, Comptes Rendus Mathematique 354, 2016

N. Kalinin, M. Shkolnikov, *Sandpiles on the heptagonal tiling*, Journal of knot theory and its ramifications 25, 12, 2016

S. Duzhin, M. Shkolnikov, *A formula for the HOMFLY polynomial of rational links*, Arnold Mathematical Journal 1 (4), 345-359, 2015

S. Duzhin, M. Shkolnikov, *Bipartite knots*, Fundamenta Math. 225, 2014

M. Shkolnikov *Kauffman polynomial of rational knots*, PDMI notes, 2011

In preparation

G. Mikhalkin, M. Shkolnikov, Hyperbolic Amoebas

N. Kalinin, M. Shkolnikov, Tropical sandpile

M. Shkolnikov, Tropical approach to affine convex geometry

M. Shkolnikov, Monodromies in refined curve counting

N. Kalinin, E. Lupercio, Y. Prieto, A. G. Saenz, M. Shkolnikov, Self-organized criticality and tropical geometry.

Languages: Russian (native), English (fluent), French (advanced)