

# Embedded Graphs

Conference Programme

27–31 October 2014

## Monday, October 27

08:45 – 09:10	REGISTRATION
09:10 – 09:15	WELCOME
09:15 – 09:55	<b>Gareth Jones</b> , Reflections in vertex- and edge-transitive maps
10:00 – 10:20	COFFEE BREAK
10:20 – 11:00	<b>Roman Nedela</b> , Abelian and nilpotent regular maps and dessins
11:05 – 11:45	<b>Jozef Širáň</b> , Non-orientable regular maps of Euler characteristic equal to the negative of an odd prime power
11:50 – 12:15	<b>Jana Šiagiová</b> , Vertex-transitive embeddings of graphs related to the degree-diameter and degree-girth problems
	LUNCH
14:00 – 14:40	<b>Anatoly Vershik</b> , Intrinsic metric on the space of levels of the infinite graded graphs and the notion of standardness
14:45 – 15:25	<b>Alexander Mednykh</b> , Automorphism groups and branch coverings of graphs
15:30 – 15:50	COFFEE BREAK
15:50 – 16:30	<b>Sergei Lando</b> , On the signed number of circuits of even length in nonoriented graphs
16:35 – 17:15	<b>Alexander Bufetov</b> , Limit theorems for translation flows
17:20 – 17:45	<b>Madina Deryagina</b> , On the circular maps, bipartite maps and hypermaps which are self-equivalent with respect to reversing the colors of vertices
18:00	WELCOME PARTY

## Tuesday, October 28

- 09:00 – 09:40 **Jason Gao**, The map asymptotic constants and Wiener index of trees
- 09:45 – 10:05 COFFEE BREAK
- 10:05 – 10:30 **Alexei Pastor**, On gluing a surface of genus  $g$  from one and two bicolored polygons
- 10:35 – 11:15 **Valery Liskovets**, Some arithmetic functions in counting unrooted topological maps
- 11:20 – 12:00 **Sergei Natanzon**, Symmetric solutions of the dispersionless  $2D$  Toda hierarchy, Hurwitz numbers and conformal dynamics
- LUNCH
- 14:00 – 14:40 **Marston Conder**, Minimum genus embeddings of vertex-transitive graphs
- 14:45 – 15:25 **Martin Škoviera**, Locally maximal embeddings of graphs in orientable surfaces
- 15:30 – 15:50 COFFEE BREAK
- 15:50 – 16:30 **Robert Jajcay**, Generalizing Cayley maps
- 16:35 – 17:00 **Pierre Dehornoy**, Minor theory for surfaces and divides of maximal signature
- 17:05 – 17:30 **Elena Kreines**, Computation of the first Stiefel–Whitney class of  $\overline{\mathcal{M}}_{0,n}^{\mathbb{R}}$

## Wednesday, October 29

- 09:00 – 09:40 **Viktor Zvonilov**, Fundamental groups of spaces of nonsingular trigonal curves
- 09:45 – 10:05 COFFEE BREAK
- 10:05 – 10:45 **Stepan Orevkov**, Embedded graphs and trigonal curves
- 10:50 – 11:30 **Motohico Mulase**, Enumeration of embedded surface graphs and quantum curves
- 11:35 – 12:00 **Norman Do**, Topological recursion and a quantum curve for monotone Hurwitz numbers
- LUNCH
- 14:00 BUS EXCURSION

## Thursday, October 30

09:00 – 09:40	<b>Leonid Chekhov</b> , Hypergeometric Hurwitz numbers: KP tau-functions and matrix models
09:45 – 10:05	COFFEE BREAK
10:05 – 10:45	<b>Maxim Kazarian</b> , Virasoro constraints and topological recursion for Grothendieck’s dessin counting
10:50 – 11:30	<b>Dimitri Zvonkine</b> , Hurwitz numbers for real polynomials
11:35 – 12:00	<b>Boris Bychkov</b> , On the geometry of decomposition of the cyclic permutation into the product of a given number of permutations
	LUNCH
14:00 – 14:40	<b>Hartmut Monien</b> , How to calculate rational coverings efficiently
14:45 – 15:25	<b>George Shabat</b> , Calculating and drawing Belyi pairs
15:30 – 15:50	COFFEE BREAK
15:50 – 16:30	<b>Alexander Kitaev</b> , Deformations of Grothendieck’s dessins d’enfants and isomonodromy deformations
16:35 – 17:00	<b>Nikolai Adrianov</b> , Weighted trees with primitive edge-rotation groups
17:05 – 17:30	<b>Dmitry Oganessian</b> , Abel pairs and modular curves
19:00	CONFERENCE DINNER

## Friday, October 31

09:00 – 09:45	<b>Mikhail Skopenkov</b> , Discrete complex analysis: convergence results
09:45 – 10:05	COFFEE BREAK
10:05 – 10:45	<b>Andrei Bogatyrev</b> , Polyhedral model of the fibers of a period map
10:50 – 11:30	<b>Arkady Skopenkov</b> , A classification of link maps of graphs to $\mathbb{R}^3$ and polyhedra to $\mathbb{R}^m$
11:35 – 12:00	<b>Vladimir Nezhinskij</b> , Knotted graphs with framed vertices
	LUNCH