

# Vilnius Conference in Combinatorics and Number Theory

17.07.2017 – 21.07.2017

## SCHEDULE

Monday 17.07

09:30 - 10:10	<b>REGISTRATION</b>	
10:10 - 10:50	Gyula Katona	An improvement on the intersecting shadow theorem
<b>Coffee break</b>		
11:20 - 12:00	Dmitry Shabanov	The Erdős–Hajnal problem on colorings of hypergraphs, its on-line generalizations and related questions
<b>Lunch break</b>		
	SECTION A	SECTION B
14:00 - 14:30	Pablo Candela On sets with small sunset in the circle	Lola Thompson Divisor-sum fibers
14:40 - 15:10	Roman Prosanov Chromatic numbers of spaces and fractional covering technique	Alisa Sedunova A logarithmic improvement in the Bombieri-Vinogradov theorem
15:20 - 15:50	Fedor Pertov Group algebra and the structure of product set	Yohei Tachiya On algebraic relations between the values of the theta function
16:00 - 16:20	Rafał Bystrzycki Sums of dilates	Darius Šiašiūnas On weighted discrete universality of periodic zeta-functions
<b>Coffee break</b>		
16:50 - 17:10	Victoria Zhuravleva	Periodic sequences modulo 1 and Pisot numbers
17:20 - 17:50	Thomas Bloom	Structure of spectra
18:00 - 18:30	Lenny Fukshansky	On two constructions of extremal lattices

## Tuesday 18.07

09:30 - 10:10	Harald Andrés Helfgott	Voronoi, Sierpinski, Eratosthenes
10:20 - 10:50	Maxim Korolev	On the estimates of Kloosterman sums
<b>Coffee break</b>		
11:20 - 12:00	Joël Rivat	On the digits of primes and squares
<b>Lunch break</b>		
	SECTION A	SECTION B
14:00 - 14:30	Sandor Kiss On the structure of sets which has coincide representation functions	Mate Matolcsi Colouring the plane with sets avoiding the unit distance
14:40 - 15:10	Radhakrishnan Nair Weyl's theorem on uniform distribution and ergodic theorems	Dezső Miklós The vertex and edge sign balance of (hyper)graphs
15:20 - 15:50	Dmitriy Bilyk Uniform distribution problems on the sphere	Alexander Semenov On the $j$ -chromatic number of random hypergraphs
16:00 - 16:20	Valdas Dičiūnas On the number of odd primitive abundant numbers with five and six distinct prime factors	Talia Shaikheeva List chromatic numbers of the complete multi-partite hypergraphs
<b>Coffee break</b>		
16:50 - 17:30	Jonas Jankauskas	On Littlewood and Newman multiples of Borwein polynomials
17:40 - 18:00	Gediminas Stepanauskas and Jonas Šiaulys	Limit distributions for some sets of additive functions

## Wednesday 19.07

09:30 - 10:10	Jozsef Solymosi	Sum-product bounds for complex matrices
10:20 - 10:50	Misha Rudnev	Counting distinct cross-ratios
<b>Coffee break</b>		
11:20 - 11:50	Jörg Thuswaldner	Discrepancy bounds for $\beta$ -adic Halton sequences
12:00 - 12:30	Florin Boca	Moments and Distribution of Eigenvalues in Large Sieve Matrices
<b>FREE AFTERNOON</b>		
19:00	<b>CONFERENCE PARTY</b> restaurant La Traviata in hotel Artis ( <a href="http://www.artis.centrumhotels.com/en/restaurants">http://www.artis.centrumhotels.com/en/restaurants</a> )	

## Thursday 20.07

09:40 - 10:10	Edward Dobrowolski	Mahler measure of polynomials with $k$ nonzero terms
10:20 - 10:50	Iekata Shiokawa	Irrationality exponents of numbers related with Cahen's constant
<b>Coffee break</b>		
11:20 - 12:00	Carlo Viola	The multidimensional saddle-point method in Diophantine approximation
<b>Lunch break</b>		
	SECTION A	SECTION B
14:00 - 14:30	Johannes Schleisitz Classical exponents of Diophantine approximation	Sophie Stevens An incidence theorem in finite fields and applications
14:40 - 15:10	Leonhard Summerer Simultaneous approximation and associated spectra	Brendan Murphy Rich lines in general position
15:20 - 15:50	Antoine Marnat Transference between homogeneous and inhomogeneous Diophantine approximation on manifolds	Oliver Roche-Newton On the size of the set $AA+A$ over the reals
16:00 - 16:20	Dmitry Gayfulin Attainable numbers and the Lagrange spectrum	Alexei Volostnov Sums of multiplicative characters with additive convolutions
<b>Coffee break</b>		
16:50 - 17:10	Raivydas Šimenas	Zero free regions of the Lerch zeta-function
17:20 - 17:40	Rokas Tamosiunas	Symmetry of zeros of Lerch zeta-function for equal parameters
17:50 - 18:10	Ilya Shkredov	On the asymmetric sum-product phenomenon

## Friday 21.07

09:40 - 10:10	Tomasz Schoen	A new upper bounds for additive Ramsey numbers
10:20 - 10:50	Dmitrii Zhelezov	Convex sets can have thin additive bases
<b>Coffee break</b>		
11:20 - 11:50	Anne de Roton	Small sumsets in $\mathbb{R}$
12:00 - 12:30	Peter Pal Pach	On progression-free sets via the polynomial method
<b>Lunch break</b>		
14:30 - 14:50	Antanas Laurinćikas	Joint discrete universality of zeta-functions of certain cusp forms
15:00 - 15:20	Eugenijus Manstavičius	On the order statistics of component sizes of a random combinatorial structure
15:30 - 15:50	Katarzyna Taczala	The degree of regularity of the equation $\sum_{i=1}^n x_i = \sum_{i=1}^n y_i + b$
16:00 - 16:20	Aliaksei Semchankau	Maximal subsets avoiding arithmetic progressions in sets
<b>Coffee break</b>		
16:50 - 17:30	Anatoly Vershik	Combinatorics of infinite 15-game and random Young tableau
17:40 - 18:20	Nikolay Moshchevitin	On some open problems in Diophantine Approximation and related fields