

VILNIAUS UNIVERSITETAS
MATEMATIKOS IR INFORMATIKOS FAKULTETAS

IV Tarptautinė konferencija
**Analiziniai ir tikimybiniai metodai
skaičių teorijoje**
2006 rugsėjo 24–30 d.d.

Skiriama profesoriaus JONO KUBILIAUS
85 metų sukakčiai

The IV International Conference
**Analytic and Probabilistic Methods
In Number Theory**

24-30 September, 2006

Dedicated to the 85th birthday
of Professor JONAS KUBILIUS

Organizing Committee

Eugenijus Manstavičius (chairman)
Antanas Laurinčikas (program director)
Gintautas Bareikis
Edmundas Gaigalas
Algirdas Mačiulis
Vilius Stakėnas
Gediminas Stepanauskas
Jonas Šiaulys

The conference was supported by European Mathematical Society, by Lithuanian State Science and Studies Foundation, and by Faculty of Mathematics and Informatics, Vilnius University, Lithuania.

PROGRAMME

09 25 MONDAY

10.00–10.10 **Opening ceremony**

Chairman Imre Kátai
Opening plenary lecture

10.10–11.10 **Kohji Matsumoto** Convolutions of von Mangoldt functions and related zeta-functions

11.10–11.40 Coffee break

Plenary lectures

11.40–12.20 **Joern Steuding** The power of moments

12.20–13.00 **Vasili Bernik** Inhomogeneous Diophantine approximations on manifolds

13.00–15.00 Lunch

Lectures. Chairman Joern Steuding

15.00–15.30 **Hidehiko Mishou** Joint functions independence for the Riemann zeta-function and Hurwitz zeta-functions

15.30–16.00 **Takashi Nakamura** The existence and the non-existence of joint t-universality for Lerch zeta-functions

16.00–16.20 **Natalia Budarina** Simultaneous Diophantine approximation on polynomial surfaces

16.20–16.50 Coffee break

16.50–17.20 **Ella Kovalevskaya** Diophantine approximations in $\mathbf{C} \times \mathbf{Q}_p$

17.20–17.40 **Gediminas Stepanauskas**
Jonas Šiaulys The Poisson law for the sum of additive functions

17.40–17.50 **Tomas Plankis** Divisibility properties of a recurrent sequence

17.50–18.00 **Algirdas Javtokas** On the bicomplex Hurwitz zeta-function

09 26 THUESDAY

Plenary lectures. Chairman Kohji Matsumoto

10.00–10.40	Karl-Heinz Indlekofer	Elementary proof of the prime number theorem
10.40–11.20	Imre Kátai	Some results and problems on arithmetical functions
11.20–11.50	Coffee break	
11.50–12.30	Jean-Loup Mauclaire	Almost periodicity and Dirichlet series
12.30–13.00	Aleksei Ustinov	On one problem in metric theory of continued fractions
13.00–15.00	Lunch	

Lectures. Chairman Aleksei Ustinov

15.00–15.30	Rasa Steuding	Topological transitivity of Euler products and related arithmetical functions
15.30–16.00	Johan Andersson	On a power sum problem of Turán
16.00–16.20	Volha Kukso	On one metric theorem related to the Mahler and Koksma approximations
16.20–16.50	Coffee break	
16.50–17.10	Algirdas Mačiulis Jonas Šiaulys	The bounds for the local distance between arithmetical distributions
17.10–17.30	Renata Macaitienė	Discrete limit theorems for general Dirichlet series
17.30–17.40	Darius Šiaučiūnas	The asymptotics of the fourth power of the periodic zeta-function
17.40–17.50	Jonas Genys	A limit theorem for general Dirichlet series
17.50–18.00	Julija Karaliūnaitė	Limit theorems for the periodic zeta-function

09 27 WEDNESDAY

10.00 Excursion to Nida

09 28 THURSDAY

Plenary lectures. Chairman Karl-Heinz Indlekofer

10.00–10.40 **Eduard Wirsing** 1. Representing the Γ -factors in the functional equation in the Selberg class
2. On a result of Hardy

10.40–11.20 **Gintautas Bareikis,**
Eugenijus Manstavičius On the DDT theorem

11.20–11.50 Coffee break

11.50–12.20 **Pavel Varbanets** Diophantine equations with quadratic forms

12.20–13.00 **Bui Minh Phong** On multiplicative functions with values in Abelian groups

13.00–15.00 Lunch

Lectures. Chairman Vasilii Bernik

15.00–15.30 **Anna Baràt** On some compactifications of \mathbb{N} and their generalizations

15.30–16.00 **László Germán** The distribution of additive arithmetical functions on the shifted set of integers having k distinct prime factors

16.00–16.20 **Vilius Stakėnas** On the multiples

16.20–16.40 **Rūta Ivanauskaitė** Value distribution of zeta-functions of certain cusp forms

16.40–17.00 **Roma Kačinskaitė** A discrete limit theorem for the Hurwitz zeta-function with algebraic irrational parameter

18.00 Conference Dinner, Hotel “Vandenis”, Birutės al. 47

09 29 FRIDAY

Plenary lectures. Chairman Jean-Loup Mauclaire

10.00–10.40 **Artūras Dubickas** The Thue-Morse sequence and Mahler's problem

10.40–11.20 **Viktor Bykovskii** Continuous fractions and their applications

11.20–11.50 Coffee break

Lectures

11.50–12.20 **Ramūnas Garunkštis** Values of the Selberg zeta-function

12.20–12.40 **Sergej Varbanets** The norm Kloosterman sums

12.40–13.00 **Maria Avdeeva** The lower bound for the local minima number of integral lattices

13.00–15.00 Lunch

Lectures. Chairman Viktor Bykovskii

15.00–15.20 **Gintautas Misevičius** Central limit theorem of the Fortet-Kac type in the case of algebraic numbers

15.20–15.30 **Violeta Balinskaitė** Discrete limit theorems for the Mellin transforms of the Riemann zeta-functions

15.20–15.50 **Antanas Laurinčikas** Joint value distribution theorems on Lerch zeta-functions

15.50–16.30 **Problem session.** **Chairman Eduard Wirsing**

16.30–17.00 **Vilius Stakėnas** **Pythagoreans. Video film.
Very special edition.**

17.00 Closing

The organizers of the Conference thank very much all participants for coming to Palanga and hope to see you all here again, and again...

List of participants

Giedrius Alkauskas	Vilnius University, Lithuania	pmxga2@nottingham.ac.uk
Johan Andersson	Stockholm University, Sweden	johana@math.su.se
Maria Avdeeva	Institute For Applied Mathematics, Khabarovsk Branch, Russia	avmariya@yandex.ru
Violeta Balinskaitė	Vilnius University, Lithuania	violeta.balinskate@mif.vu.lt
Anna Baràt	University of Paderborn, Germany	bam10@math.upb.de
Gintautas Bareikis	Vilnius University, Lithuania	gintautas.bareikis@maf.vu.lt
Vasilii Bernik	Institute of Mathematics of National Academy of Sciences Belarus	bernik@im.bas-net.by
Natalia Budarina	Vladimir State Pedagogical University, Russia	buda77@mail.ru
Bui Minh Phong	Eötvös Loránd University, Budapest, Hungary	bui@compalg.inf.elte.hu
Viktor Bykovskii	Institute For Applied Mathematics, Khabarovsk Branch, Russia	vab@iam.khv.ru
Paulius Drungilas	Vilnius University, Lithuania	paulius.drungilas@mif.vu.lt
Artūras Dubickas	Vilnius University, Lithuania	arturas.dubickas@maf.vu.lt
Edmundas Gaigalas	Vilnius University, Lithuania	edmundas.gaigalas@maf.vu.lt

Virginija Garbaliauskienė	Šiauliai University, Lithuania	virginija@fm.su.lt
Ramūnas Garunkštis	Vilnius University, Lithuania	ramunas.garunkstis@maf.vu.lt
Jonas Genys	Šiauliai University, Lithuania	genys@splius.lt
László Germán	University of Paderborn, Germany	laszlo@math.upb.de
Karl-Heinz Indlekofer	University of Paderborn, Germany	k-heinz@math.uni-paderborn.de
Rūta Ivanauskaitė	Vilnius University, Lithuania	iv.ruta@gmail.com
Jonas Jankauskas	Vilnius University, Lithuania	jonas.jankauskas@maf.vu.lt
Algirdas Javtokas	Vilnius University, Lithuania	ajavtokas@math.com
Audrius Kačėnas	Vilnius University, Lithuania	audrius.kacenas@maf.vu.lt
Roma Kačinskaitė	Šiauliai University, Lithuania	r.kacinskaite@fm.su.lt
Justas Kalpokas	Vilnius University, Lithuania	justas.kalpokas@yahoo.com
Julija Karaliūnaitė	Vilnius University, Lithuania	karaljul@gmail.com
Imre Kátai	Eötvös Loránd University, Budapest, Hungary	katai@compalg.inf.elte.hu
Ella Kavalevskaya	Belarus Agrarian Technological University	kovalevsk@im.bas-net.by
Jonas Kubilius	Vilnius University, Lithuania	jonas.kubilius@maf.vu.lt
Volha Kukso	Institute of Mathematics of National Academy of Sciences of Belarus	olga_kukso@tut.by
Antanas Laurinčikas	Vilnius University, Lithuania	antanas.laurincikas@maf.vu.lt

Renata Macaitienė	Šiauliai University, Lithuania	renata.m@centras.lt
Algirdas Mačiulis	Vilnius University, Lithuania	algirdas.maciulis@maf.vu.lt
Eugenijus Manstavičius	Vilnius University, Lithuania	eugenijus.manstavicius@maf.vu.lt
Hamletas Markšaitis	Vilnius University, Lithuania	hamletas.marksaitis@maf.vu.lt
Kohji Matsumoto	Nagoya University, Japan	kohjimat@math.nagoya-u.ac.jp
Jean-Loup Mauclaire	University Paris 6, France	mauclai@ccr.jussieu.fr
Gintautas Misevičius	Vilnius University, Lithuania	gintas.misevicius@mif.vu.lt
Hidehiko Mishou	Nagoya University, Japan	mishou@ube-k.ac.jp
Takashi Nakamura	Nagoya University, Japan	m03024z@math.nagoya-u.ac.jp
Tomas Plankis	Vilnius University, Lithuania	topl@hypernet.lt
Jonas Šiaulys	Vilnius University, Lithuania	jonas.siaulys@maf.vu.lt
Vilius Stakėnas	Vilnius University, Lithuania	vilius.stakenas@maf.vu.lt
Gediminas Stepanauskas	Vilnius University, Lithuania	gediminas.stepanauskas@maf.vu.lt
Joern Steuding	Würzburg University, Germany	steuding@mathematik.uni-wurzburg.de
Rasa Steuding	Universidad Autónoma de Madrid, Spain	rasa.steuding@uam.es
Darius Šiaučiūnas	Šiauliai University, Lithuania	siauciunas@fm.su.lt
Anna Tukhvatullina	Institute For Applied Mathematics, Khabarovsk Branch, Russia	tuhvatullina@mail.ru

Aleksej Ustinov	Institute For Applied Mathematics, Khabarovsk Branch, Russia	rezerv@list.ru
Pavel Varbanets	I.I. Mechnikov Odessa National University, Ukraine	varb@sana.od.ua varb@te.net.ua
Sergei Varbanets	I.I. Mechnikov Odessa National University, Ukraine	varb@sana.od.ua varb@te.net.ua
Eduard Wirsing	Ulm University, Germany	eduard.wirsing@uni-ulm.de