

List of the Participants/Titles of Talks

in the **International Conference Constructive Theory of Functions,**
June 3-10, 2010, Sozopol, Bulgaria

Participant	Title of Talk
Elena Berdysheva Hohenheim, Germany elena.berdysheva@uni-hohenheim.de	Bernstein-Durrmeyer operators with arbitrary weight functions
Ronald A. DeVore Texas, U.S.A. ronald.a.devore@gmail.com	The reduced basis method and greedy algorithms
Dimitar K. Dimitrov Sao Paolo, Brazil d_k_dimitrov@yahoo.com	Zeros of polynomials
Hakop Hakopian Yerevan, Armenia hakophakopian@yahoo.com	On the Gasca-Maeztu Conjecture in \mathbb{R}^2 and \mathbb{R}^3
Kamen Ivanov Sofia, Bulgaria kamen@math.bas.bg	Sub-exponentially localized kernels and frames with applications to numerical analysis
Georgii M. Kobelkov Moscow, Russia kobelkov@dodo.inm.ras.ru	Existence of a solution to the 3D primitive equations "in the large"
Evgenij Livshitz Moscow, Russia livshitz@rambler.ru	Greedy algorithms and the best m -term approximation
Qazi I. Rahman Montreal, Canada rahmanqi@DMS.UMontreal.CA	Derivative estimates for meromorphic functions and functions of exponential type
Aleksei Yu. Shadrin Cambridge, U.K. A.Shadrin@damtp.cam.ac.uk	Landau-Kolmogorov inequality revisited
Jozsef Szabados Budapest, Hungary szabados@renyi.hu	Extending and modifying classical operators to the weighted case
Vladimir M. Tikhomirov Moscow, Russia vmtikh@gmail.com	Extremal problems in approximation theory and Lagrange principle

Participant	Title of Talk
Ulrich Abel Friedberg, Germany ulrich.abel@mnd.fh-friedberg.de	Old and new results on the Favard operator
Teimuraz Akhobadze Tbilisi, Georgia takhoba@gmail.com	On convergence of trigonometric Fourier series
Alexander Alexandrov Sofia, Bulgaria ava@fmi.uni-sofia.bg	An inequality of Duffin-Schaeffer type
Robert Algervik Karlstad, Sweden robert.algervik@kau.se	On Fournier-Gagliardo mixed norm spaces
Andrey B. Andreev Gabrovo, Bulgaria andreev@tugab.bg	Lower bounds for eigenvalues by non-conforming FEM on convex domain
Andrey S. Andreev Sofia, Bulgaria aandreev@math.bas.bg	
Roumen Anguelov Pretoria, South Africa roumen.anguelov@up.ac.za	Locally monotone approximations of real functions on graphs
Vitaly Arestov Ekaterinburg, Russia Vitalii.Arestov@usu.ru	Polynomials that deviate the least from zero in measure and in the uniform norm on compact sets of a given measure and other related problems
Nikolaos Atreas Thessaloniki, Greece natreas@csd.auth.gr	On a class of local average sampling expansions in subspaces of $L_2(\mathbb{R})$
Vladimir Babev Sofia, Bulgaria babev@fmi.uni-sofia.bg	
Mohamed Belhout Lyon, France mohamed.belhout@insa-lyon.fr	A reduced space interpolation method for the time derivative applied to transport in domains with heterogeneous geometric dimensions
Peter Binev Columbia, SC, U.S.A binev@math.sc.edu	Scattered data approximation in high dimensions
Alexander Brudnyi Calgary, Canada albru@math.ucalgary.ca	On local behavior of holomorphic functions along complex submanifolds of \mathbb{C}^N
Lubomir T. Dechevsky Narvik, Norway ltd@hin.no	Smooth convex resolution of unity on general partitions of multidimensional domains using generalized expo-rational B-splines, and application to multivariate approximation and Hermite interpolation on scattered point sets

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Marina Deykalova Ekaterinburg, Russia Marina.Deikalova@usu.ru	Some extremal problems for algebraic polynomials on the Euclidean sphere
Dimo Dimov Sofia, Bulgaria dtdim@iinf.bas.bg	Exact performance of (ρ, θ) -Hough transform for star chain images processing
Asen Dontchev Ann Arbour, U.S.A. ald@ams.org	Splines with constraints
Borislav Draganov Sofia, Bulgaria bdraganov@fmi.uni-sofia.bg	On estimating the rate of best trigonometric approximation in L_p by a modulus of smoothness
Chrisina Draganova London, U.K. c.draganova@uel.ac.uk	
Peter Dragnev Fort Wayne, U.S.A dragnevp@ipfw.edu	Asymptotic behavior of Carleman orthogonal polynomials
Dung Dunh Hanoi, Vietnam dinhdung@vnu.edu.vn	Optimal adaptive sampling recovery based on quasi-interpolant representations
Ivan Georgiev Sofia, Bulgaria john@parallel.bas.bg	Subspace correction method for discontinuous Galerkin discretizations of linear elasticity equations
Irina Georgieva Sofia, Bulgaria irina@math.bas.bg	On interpolation in the unit disk based on both Radon projections and function values
Ushangi Goginava Tbilisi, Georgia z_goginava@hotmail.com	Strong approximation of two-dimensional Walsh-Fourier series
Alexander Goncharov Ankara, Turkey goncha@fen.bilkent.edu.tr	Bases in Banach spaces of smooth functions on Cantor-type sets
Heiner Gonska Duisburg, Germany heiner.gonska@uni-due.de	Simultaneous Approximation by Bernstein Operators in Hölder Norms I
Vesselin Gushev Sofia, Bulgaria v_gushev@fmi.uni-sofia.bg	

Participant	Title of Talk
Markus Hansen Jena, Germany markus.hansen2@uni-jena.de	m -term approximation in tensor products of Sobolev and Besov spaces
Margareta Heilmann Wuppertal, Germany heilmann@math.uni-wuppertal.de	Strong converse results on Baskakov-Durrmeyer operators and their quasi-interpolants
Ágota Horváth Budapest, Hungary ahorvath@renyi.hu	Near-best approximation by a de la Vallée Poussin-type interpolatory operator
Ivan Hristov Sofia, Bulgaria ivanh@fmi.uni-sofia.bg	Numerical investigation of fluxon solutions in stacks of Josephson junctions
Georgi Iliev Sofia, Bulgaria giliev@math.bas.bg	
Costas Karanikas Thessaloniki, Greece karanika@csd.auth.gr	Boolean invertible matrices identified from two permutations, their corresponding unbalanced Haar matrices and an application to data encryption
Kazuaki Kitahara Sanda, Japan kitahara@kwansei.ac.jp	Functions approximated by any sequence of interpolating generalized polynomials
Vassil Kolev Sofia, Bulgaria kolev_acad@abv.bg	Universal construction of orthogonal double shift functions and applications
Vladimir Kostov Nice, France kostov@unice.fr	On the Schur-Szegő composition of polynomials
Ognyan Kounchev Sofia, Bulgaria kounchev@gmx.de	Infinite-dimensional generalization of Kolmogorov-Gelfand theory of widths and applications to Compressive Sensing
Ralitzia Kovacheva Sofia, Bulgaria rkovach@math.bas.bg	Zero distribution of sequences of rational functions
András Kroó Budapest, Hungary kroo@renyi.hu	On Markov, Bernstein and Chebyshev type inequalities for k -monotone polynomials
Denka Kutzarova Urbana, IL, U.S.A. denka@math.uiuc.edu	Weak convergence of greedy algorithms in Banach spaces
Raytcho Lazarov College Station, TX, U.S.A. lazarov@math.tamu.edu	Discontinuous Galerkin finite element method of elliptic problems

Participant	Title of Talk
Martin Lind Karlstad, Sweden martin.lind@kau.se	On functions of bounded p -variation
Friedrich Littmann Fargo, ND, U.S.A. Friedrich.Littmann@ndsu.edu	Bandlimited one-sided approximations to the Gaussian
Thomas Loidl Eichstätt, Germany thomas.loidl@ku-eichstaett.de	
Alexey Lukashov Istanbul, Turkey alukashov@fatih.edu.tr	Rational functions with fixed poles deviated least from zero on several arcs with zeros belonging to those arcs
Vitaly Maiorov Haifa, Israel maiorov@tx.technion.ac.il	Harmonic analysis and approximation by radial functions
Roumen Maleev Sofia, Bulgaria maleev@fmi.uni-sofia.bg	
Stefano De Marchi Padova, Italy demarchi@math.unipd.it	Computing multivariate Fekete and Leja points by numerical linear algebra
Lozko Milev Sofia, Bulgaria milev@fmi.uni-sofia.bg	Markov interlacing property for exponential polynomials
Ionela Moale Linz, Austria Ionela.Moale@jku.at	Min-max polynomials on the ball in several dimensions
Antonio Jesus Lopez Moreno Jaen, Spain ajlopez@ujaen.es	Some properties of Durrmeyer modifications of the Meyer-König and Zeller and other composite linear operators
Givi Nadibaidze Tbilisi, Georgia g.nadibaidze@gmail.com	On summability almost everywhere by Cesaro and Abel-Poisson method of series with respect to block-orthonormal systems
Nikola Naidenov Sofia, Bulgaria nikola@fmi.uni-sofia.bg	Markov type inequalities for oscillating exponential polynomials
M. A. Navascués Zaragoza, Spain manavas@unizar.es	Schauder fractal bases of $L^p(I)$
Markus Niess Eichstätt, Germany markus.niess@ku-eichstaett.de	Universal phenomena in the complex plane

Participant	Title of Talk
Geno Nikolov Sofia, Bulgaria geno@fmi.uni-sofia.bg	On the behavior of ultraspherical polynomials in the complex plane
Ludmila Nikolova Sofia, Bulgaria ludmilan@fmi.uni-sofia.bg	On ψ -direct sums and some inequalities
Parvan Parvanov Sofia, Bulgaria pparvan@fmi.uni-sofia.bg	A Goodman-Sharma variant of the Meyer-König and Zeller operators
Guergana Petrova College Station, TX, U.S.A. gpetrova@math.tamu.edu	On extended cubatures of Turán type for the ball
Allan Pinkus Haifa, Israel pinkus@tx.technion.ac.il	
Mohammed A. Qazi Tuskegee, U.S.A. gazima@aol.com	An inequality for self reciprocal polynomials
Heinz-Joachim Rack Hagen, Germany heinz-joachim.rack@drrack.com	A new extremal property of the Chebyshev polynomials: Maximizing pairs of coefficients of bounded polynomials
Hermann Render Dublin, Ireland hermann.render@ucd.ie	Bernstein operators for functions in the unit ball of euclidean space
Szilárd Révész Budapest, Hungary revesz@renyi.hu	Conjectures and results on the multivariate Bernstein inequality on convex bodies
Artur Sahakian Yerevan, Armenia sart@ysu.am	On the double Fourier series of functions of bounded partial Λ -variation
Blagivest Sendov Sofia, Bulgaria sendov2003@yahoo.com	Extremal domains associated with a complex polynomial
Sergei Sidorov Saratov, Russia sidorovsp@info.sgu.ru	Relative linear n -widths of sets of differentiable functions
Gancho Tachev Sofia, Bulgaria gtt_fte@uacg.bg	Simultaneous approximation by Bernstein operators in Hölder norms II
Milko Takev Sofia, Bulgaria takev@fmi.uni-sofia.bg	Modified product cubature formulae with finite-differences error representation
Spas Tashev Sofia, Bulgaria tashev@fmi.uni-sofia.bg	Interpolation by spherical polynomials on the sphere

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Rumen Uluchev Sofia, Bulgaria ruluchev@vtu.bg	
Stanislav Vasilyev Ekaterinburg, Russia stanislav.vasilyev@imm.uran.ru	Multidimensional Jackson inequality in mean-square norm
Krassimira Vlachkova Sofia, Bulgaria krassivl@fmi.uni-sofia.bg	Error bounds for scattered data interpolation in \mathbb{R}^3 with smooth cubic curve networks
Martin Wagner Wuppertal, Germany wagner@math.uni-wuppertal.de	Asymptotic expansions for a Durrmeyer variant of Baskakov and Meyer-König and Zeller operators and quasi-interpolants
Songping Zhou Hangzhou, Zhejiang, China songping.zhou@163.com	What condition can correctly generalize monotonicity in L^1 -convergence of sine series?
Zvi Ziegler Haifa, Israel ziegler@tx.technion.ac.il	
Ludmil Zikatanov Pennsylvania, U.S.A. ltz@math.psu.edu	Some canonical decompositions of discontinuous Galerkin finite element spaces and preconditioning