## International Conference Harmonic Analysis and Approximations, VII

Dedicated to 90<sup>th</sup> anniversary of Alexandr Talalyan

16-22 September, 2018, Tsaghkadzor, Armenia

## PROGRAMME

## 16 SEPTEMBER

$18^{00}$ - $19^{00}$	Arrival and Registration
$19^{00}$ - $20^{30}$	Welcome Party
$20^{00}$ - $22^{00}$	Registration
	17 SEPTEMBER
$9^{00}$ - $10^{00}$	Breakfast
$10^{00}$ - $10^{40}$	Opening Ceremony: Talalyan's Memorial Session
$10^{40}$ - $11^{25}$	G. Gevorkyan, The scientific legacy of A.A. Talalyan, and related results
$11^{30}$ - $12^{00}$	Coffee Break
$12^{00}$ - $12^{45}$	A. Olevskii, Around Cantor uniqueness theorem
$13^{00}$ - $14^{00}$	Lunch
	PLENARY LECTURE – Chairman: B. Kashin
15 <sup>00</sup> -15 <sup>45</sup>	V. Skvortsov, Differentiation of generalized Bochner and Pettis integrals and orthogonal series with Banach space valued coefficients
	Section A – Chairman: A. Sahakian
15 <sup>55</sup> -16 <sup>15</sup>	G. Oniani, On the differentiation of integrals with respect to translation invariant convex density bases
16 <sup>15</sup> -16 <sup>35</sup>	M. Grigoryan and <u>V. Krotov</u> , On the unconditional quasi-basis property of the Faber–Schaude system
$16^{45}$ - $17^{05}$	E. Liflyand, The Fourier transform of a function of bounded variation: symmetry and asymmetry
$17^{05}$ - $17^{25}$	A. Solodov, A lower bound for the sum of a sine series with convex coefficients
$17^{25}$ - $17^{45}$	N. Srapionyan, S. Gogyan, On the quasi-greedy constant of the Haar subsystems in $L_1(0;1)^d$
	<b>Section B</b> – Chairman: E. Lebedeva
$15^{55}$ - $16^{15}$	R. <u>Barkhudaryan</u> , A. Poghosyan, <i>Convergence Acceleration of the Trigonometric Expansions</i>
$16^{15}$ - $16^{35}$	O. Kuznetsova, On the norms of the integral means of the Bochner-Riesz sums

A. Saksa, On approximation processes defined by the cosine operator function in a Banach space

 $16^{45}$ - $17^{05}$ 

 $17^{25} - 17^{45}$ L. Ikhsanov, On estimation of functions orthogonal to piecewise constant functions by the second modulus of continuity  $19^{00}$ - $20^{00}$ Dinner *18 SEPTEMBER*  $9^{00}$ - $10^{00}$ Breakfast PLENARY LECTURES – Chairman: V. Temlyakov  $10^{00}$ - $10^{25}$ B. Kashin, Decomposing an orthogonal matrix into two submatrices with extremly small (2, 1) norm  $10^{25} - 10^{45}$ P. Borodin, Approximation by sums of shifts in Lp spaces  $10^{55} - 11^{40}$ S. Konyagin, Convergence to Zero of Exponential Sums With Positive Integer Coefficients  $11^{40}$ - $12^{10}$ Coffee Break  $12^{10}$ - $12^{55}$ G. Kerkyacharian, Regularity spaces, and wavelet in a geometric framework. Application to Gaussian processes and statistical estimation  $13^{00}$ - $14^{00}$ Lunch **Section A** – Chairman: S. Kislyakov  $15^{00}$ - $15^{20}$ M. Skopina, Multivariate Sampling-type Operators in Weighted Lp Spaces  $15^{20}$ - $15^{40}$ A. Krivoshein and M. Skopina, Multivariate Sampling-Type Expansions  $15^{50}$ - $16^{10}$ E. Lebedeva, Unconditional Convergence for Wavelet Frame Expansions  $16^{10}$ - $16^{30}$ M. Passenbrunner, Spline Characterizations of the Radon-Nikodým property  $16^{40}$ - $17^{00}$ K. Keryan and M. Passenbrunner, Projection operators onto spaces of Chebyshev splines  $17^{00} - 17^{20}$ S. Aleksanyan, Optimal uniform approximation on the unbounded domains by the harmonic functions  $17^{30} - 17^{50}$ D. Martirosyan, On a Lower Bound of Polynomial Norms in a Hilbert Space **Section B** – Chairman: T. Harutyunyan  $15^{00}$ - $15^{20}$ K. Lesnik, Toeplitz and Hankel operators in non-algebraic setting  $15^{20}$ - $15^{40}$ P. Mleczko, Selected aspects of complex symmetric operators  $15^{50}$ - $16^{10}$ J. Restrepo, A Boundary Property of Some Subclasses of Functions of Bounded Type in the Half-Plane  $16^{10}$ - $16^{30}$ V. Ohanyan, Reconstruction of convex bodies by Covariogram  $16^{40}$ - $17^{00}$ N. Aharonyan, Calculation of geometric probabilities for balls in R<sup>n</sup>

A. Šeletski, A. Kivinukk, On Steklov means in operator cosine function framework in Banach space

 $17^{05} - 17^{25}$ 

weighted spaces  $17^{50}$ - $18^{10}$ A. Tumanyan, On the Fredholm property of semielliptic operators in anisotropic Sobolev spaces  $19^{00} - 20^{00}$ Dinner *19 SEPTEMBER*  $9^{00}$ - $10^{00}$ Breakfast **PLENARY LECTURES** – Chairman: G. Karagulyan  $10^{00} - 10^{45}$ V. Temlyakov, Remarks on numerical integration, discrepancy, and diaphony  $10^{55} - 11^{40}$ A. Iosevich, The Falconer distance Problem  $11^{40}$ - $12^{10}$ Coffee Break **Section A** – Chairman: S. Konyagin  $12^{10}$ - $12^{30}$ S. Kislyakov, A remark on indicator functions with sparse spectrum  $12^{30}$ - $12^{50}$ V. Stepanov, Characterization of Associate Function Spaces **Section B** – Chairman: E. Liflyand  $12^{10}$ - $12^{30}$ G. Karapetyan, Boundary Embedding Theorems for Multianisotropic Spaces  $12^{30}$ - $12^{50}$ H. Hayrapetyan, Boundary value problem with infinite index  $13^{00} - 14^{00}$ Lunch **Section A** – Chairman: V. Skvortsov  $15^{00}$ - $15^{20}$ U. Goginava, Subsequences of logarithmic means of Walsh-Fourier Series  $15^{20}$ - $15^{40}$ K. Navasardyan, Uniqueness theorems for Vilenkin and generalized Haar systems  $15^{50}$ - $16^{10}$ A. Sargsyan, On the structure of universal functions for weighted spaces  $L^p_{\mu}[0, 1], p > 1$  $16^{10}$ - $16^{30}$ L. Galoyan, On the convergence of the negative order Cesaro means of Fourier series with respect to the trigonometric and Walsh systems  $16^{40}$ - $17^{00}$ A. Kobelyan, On the Convergence of Double Fourier Series with Respect to Haar and Franklin Systems  $17^{00}$ - $17^{20}$ S. Sargsyan, On the convergence and behavior of coefficients of Fourier-Vilenkin series **Section B** – H. Hayrapetyan  $15^{00}$ - $15^{20}$ H. Kempka, Building Blocks for Function Spaces with Variable Exponents 1520-1540 G. Karapetyan, H. Petrosyan, Construction of Approximate Solutions of the Dirichlet Problem in Rn for Regular Hypoelliptic Operators  $15^{50}$ - $16^{10}$ T. Harutyunyan, *Uniqueness theorems in inverse Sturm–Liouville problems*  $16^{10}$ - $16^{30}$ R. Khachatryan, Gradient Descent Method in Parametric Optimization Problems

S. Aghekyan and H. Hayrapetyan, On the Riemann boundary value problem in the half-plane for

 $17^{00} - 17^{20}$ 

 $17^{30} - 17^{50}$ 

L. Gevorgyan, On the Castillon - Cramer problem

$16^{40}$ - $17^{00}$	H. Asatryan, W. Kirsch, Random Schrödinger Operators with a Background Potential
$17^{00}$ - $17^{20}$	N. Kekelia, On the Relation of Stability Between Linear Ordinary Systems, Impulsive and Difference
	Equations and Linear Systems of Generalized Ordinary Differential Equations
$17^{20}$ - $17^{40}$	A. Babayan, S. Abelyan, On an Effective Solution of the Boundary Value Problem for One Impro-
	perly Elliptic Equation
$18^{50}$ - $19^{00}$	Participant's Group Photo
$19^{00}$ - $23^{00}$	Banquet
	20 SEPTEMBER
$9^{00}$ - $10^{00}$	Breakfast
	PLENARY LECTURES – Chairman: A. Olevskii
10 <sup>00</sup> -10 <sup>45</sup>	D. Leviatan, Comparing the degrees of unconstrained and constrained approximation by polynomials
$10^{55}$ - $11^{40}$	G. Karagulyan, On the Sparse Domination for a General Class of Operators
$11^{40}$ - $12^{10}$	Coffee Break
	Section A – Chairman: G. Gevorkyan
$12^{10}$ - $12^{30}$	E. Kopecka, Geometry and Convergence of Products of Projections
$12^{30}$ - $12^{50}$	A. Horváth, Translation operator on the half-line
	Section B – Chairman: R. Khachatryan
$12^{10}$ - $12^{30}$	N. Temirgaliyev, Potential of the Institute of Theoretical Mathematics and Scientific computations
	(Kazakhstan) in directions and themes
$12^{30}$ - $12^{50}$	S. Navasardyan, On the Axioms of Hypergroup Over Group
$13^{00}$ - $14^{00}$	Lunch
	Section A – Chairman: G. Oniani
$15^{00}$ - $15^{20}$	M. Grigoryan, Functions, universal with respect to classical systems
$15^{20}$ - $15^{40}$	A. Al-Salman, Bounds For Marcinkiewicz Integral Operators
$15^{50}$ - $16^{10}$	A. Kuleshov, Continuous sums of ridge functions on a convex body
$16^{10}$ - $16^{30}$	G. Gevorkyan, On the uniqueness of double Franklin series
$16^{40}$ - $17^{00}$	V. Mikayelyan, The Gibbs phenomenon for general Franklin systems
1700-1720	L. Simonyan, On Convergence of the Fourier Series with Respect to the Multiplicative Systems
	Section B – Chairman: R. Barkhudaryan

$15^{00}$ - $15^{20}$	S. Dekel, On Exact Recovery of Dirac Ensembles from Projections onto Polynomial Spaces
$15^{20}$ - $15^{40}$	H. Hakopian, V. Vardanyan, The usage of lines in GC_n-sets
$15^{50}$ - $16^{10}$	N. Topuridze, Some Kind of Quaternionic Polynomials
$16^{10}$ - $16^{30}$	A. Rotkevich, Area integral and polynomial approximations of holomorphic functions in $C_n$
$16^{40}$ - $17^{00}$	R. Aramyan, The Sine Transform in Convex Geometry
$17^{00}$ - $17^{20}$	M. Karapetyants, Subdivision schemes on dyadic half-line
$18^{45}$ - $19^{00}$	Closing Ceremony
$19^{00}$ - $20^{00}$	Dinner
	21 SEPTEMBER
$9^{00}$ - $10^{00}$	Breakfast
$10^{00}$ - $21^{00}$	Excursion with lunch and dinner
	22 SEPTEMBER

 $9^{00}$ - $10^{00}$ 

 $10^{00}$ 

Breakfast

Departure