

## ***Program***

**Monday (24<sup>th</sup> September)**  
**MSU, Main Building, aud.16-16**

9:00-9:45 Registration

9:45-10:00 Opening

10:00-10:40 **V.N. Temlyakov**. HIGH-DIMENSIONAL APPROXIMATION, RECOVERY AND COMPRESSION WITH APPLICATION IN BIG DATA ANALYSIS

10:45-11:25 **A. Uschmajew**. LOW-RANK APPROXIMATION OF NEAREST NEIGHBOR INTERACTION SYSTEMS

11:30-12:00 COFFEE BREAK (aud.16-13)

12:00-12:40 **E. Kopecká**. JOHNSON GRAPHS AND DIVERGENCE OF PRODUCTS OF PROJECTIONS

12:45-13:25 **S.V. Astashkin**. ON COMPARING SYSTEMS OF RANDOM VARIABLES WITH THE RADEMACHER SEQUENCE

13:25-15:00 LUNCH

15:00-15:40 **I.G. Tsarkov**. CHEBYSHEV PROJECTION IN NON-SYMMETRICAL POLYHEDRAL SPACES

15:45-16:25 **A.O. Radomskii**. SOME PROPERTIES OF THE SPACE OF QUASICONTINUOUS FUNCTIONS

16:30-17:10 **P.A. Borodin**. ON GREEDY APPROXIMATION WITH RESPECT TO AN ARBITRARY SET

**Tuesday (25<sup>th</sup> September)**  
**Steklov Institute, Conference hall, 9th floor**

10:00-10:40 **G. Kerkycharian**. REGULARITY SPACES AND WAVELET IN A GEOMETRIC FRAMEWORK. APPLICATION TO GAUSSIAN PROCESSES AND STATISTICAL ESTIMATION

10:45-11:25 **M.M. Skriganov**. BOUNDS FOR  $L_p$ -DISCREPANCIES OF POINT DISTRIBUTIONS IN COMPACT METRIC MEASURE SPACES

11:30-12:00 COFFEE BREAK (aud.16-13)

12:00-12:40 **M.A. Skopina**. APPROXIMATION BY MULTIVARIATE QUASI-PROJECTION OPERATORS

12:45-13:25 **D.V. Gorbachev**. NIKOLSKII CONSTANTS FOR SPHERICAL POLYNOMIALS AND ENTIRE FUNCTIONS OF SPHERICAL EXPONENTIAL TYPE

13:25-15:00 LUNCH

15:00-15:40 **V.Yu. Protasov**. MULTIVARIATE HAAR FUNCTIONS, BOUNDARY DIMENSION, AND SYNCHRONIZING AUTOMATA

15:45-16:25 **G. Byrenheid**. CONSTRUCTIVE SPARSE APPROXIMATION WITH RESPECT TO THE FABER-SHAUDER SYSTEM

16:30-17:10 **D. Bazarkhanov**. APPROXIMATE RECOVERY OF PSEUDO-DIFFERENTIAL OPERATORS ON CLASSES OF PERIODIC FUNCTIONS WITH MIXED SMOOTHNESS

17:30 **WELCOME PARTY**

**Wednesday (26<sup>th</sup> September)**  
**MSU, Main Building, aud.16-16**

10:00-10:40 **A. Shadrin.** OPTIMAL SAMPLING RATES FOR APPROXIMATING AN ANALYTIC FUNCTION ON A COMPACT

10:45-11:25 **V.V. Galatenko.** CONVERGENCE OF GREEDY EXPANSIONS WITH PRESCRIBED COEFFICIENTS IN HILBERT SPACES

11:30-12:00 COFFEE BREAK (aud.16-13)

12:00-12:40 **E.A. Lebedeva.** NONSTATIONARY WAVELETS BASED ON PERIODIC WAVELETS

12:45-13:25 **S.F. Lukomskii.** FAST DISCRETE FOURIER TRANSFORM ON LOCAL FIELDS OF POSITIVE CHARACTERISTIC

13:25-15:00 LUNCH

**Thursday (27<sup>th</sup> September)**  
**MSU, Main Building, aud.16-16**

10:00-10:40 **S.V. Konyagin.** ON RECONSTRUCTION OF INTEGER VECTOR VIA LINEAR MEASUREMENTS

10:45-11:25 **V.E. Maiorov.** PSEUDO-DEGREE OF RADIAL POLYNOMIALS

11:30-12:00 COFFEE BREAK (aud.16-13)

12:00-12:40 **Yu.V. Malykhin.** ON KOLMOGOROV WIDTHS AND APPROXIMATE RANK

12:45-13:25 **N.Yu. Antonov.** ON CONVERGENCE ALMOST EVERYWHERE OF MULTIPLE TRIGONOMETRIC FOURIER SERIES

13:25-15:00 LUNCH

15:00-15:40 **A.P. Solodov** ESTIMATES FOR THE SUMS OF A SINE SERIES WITH CONVEX COEFFICIENTS

15:45-17:10 OPEN PROBLEMS AND APPLICATIONS

**Friday (28<sup>th</sup> September)**  
**MSU, Main Building, aud.16-16**

10:00-10:40 **M.I. Dyachenko.** NEW RESULTS CONNECTED WITH HARDY-LITTLEWOOD-PALEY THEOREM

10:45-11:25 **A.A. Kuleshov.** CONTINUOUS SUMS OF RIDGE FUNCTIONS ON CONVEX SUBSETS OF  $\mathbb{R}^n$

11:30-12:00 COFFEE BREAK (aud.16-13)

12:00-12:40 **P.A. Terekhin.** BANACH FRAMES, REPRODUCING KERNELS AND DISCRETIZATION

12:45-13:25 **M.G. Plotnikov.** VILENKIN-CHRESTENSON SERIES AND RECOVERY OF SUMMABLE FUNCTIONS