

EMS Conference
Emil Artin International Conference



Dedicated to the 120th Anniversary of Emil Artin
(03.07.1898-20.12.1962)
Yerevan, the Republic of Armenia,
May 27-June 2, 2018.



PROGRAM



Supported by the European Mathematical Society and
International Mathematical Union

Yerevan 2018

Monday May 28, 2018. Morning Session

8:00 – 9:00	Registration (Yerevan State University, Alex Manoogian 1, Department of Mathematics and Mechanics, Room 106)
	Room A
9:00 – 9:15	Opening Chair: Yuri Movsisyan (Armenia)
9:15 – 9:45	Efim Zelmanov Groups satisfying polynomial identities
9:45 – 10:15	Alexey Parshin Reciprocity laws and zeta-functions (from Emil Artin to Robert Langlands)
10:15 – 10:45	Jonathan Smith Artin's Induction Theorem and quasigroup characters
10:45 – 11:15	Coffee Break Chair: Alexander Guterman (Russia)
11:15 – 11:45	Mikhail Volkov Local finiteness for Green's relations in semigroup varieties
11:45 – 12:15	Aleksandar Krapež Quadratic functional equations on quasigroups and related systems
12:15 – 12:45	Tullio Ceccherini-Silberstein Algebraic ideas in dynamical systems
12:45 – 14:15	Lunch

Monday May 28, 2018. Afternoon Session

Room A	
	Chair: László Szalay (Slovakia)
14:15 – 14:45	Hanamantagouda Sankappanavar Implication Zroupoids: An Abstraction from De Morgan Algebras
14:45 – 15:15	Anna Romanowska Barycentric algebras and beyond
15:15 – 15:45	Armen Sergeev Quantum calculus
15:45 – 16:00	Coffee Break
Room A	Room B
	Chair: Victor Shcherbacov (Moldova)
16:00 – 16:20	Sevak Mkrtchyan Rigidity, graphs and Hausdorff dimension
16:20 – 16:40	Vijay Kumar Bhat Matrix rings as one sided $\sigma - (S, 1)$ rings
16:40 – 17:00	A. Admiralova, V. Beniash-Kryvets On varieties of two dimensional representations of a family of one-relator groups
17:00 – 17:20	Nikolay Kaleyski Changing Points of APN Functions
	Chair: Mariam Haroutunian (Armenia)
	Alexey Yashunsky On subalgebras of probability distributions over finite rings with unity
	Marwan Said Abualrub Long range diffusion-reaction model on population dynamics
	Doost Ali Mojdeh An extension of Roman dominating function
	Kamal Aghigh A survey on residual transcendental extensions of valuations
	Welcome party
18:00 – 19:00	“Caucasus”

Tuesday May 29, 2018. Morning Session

Room A	
	Chair: Daniele Mundici (Italy)
9:00 – 9:30	Ivan Shestakov Speciality problem for Malcev algebras
9:30 – 10:00	Yuri Movsisyan Varieties and hypervarieties of algebras and new discrete mathematical functions
10:00 – 10:30	Alexander Guterman Positive resolution of Krauter conjecture on permanents
10:30 – 11:00	Levon Beklaryan Groups of homeomorphisms of the line and the circle. Criteria for almost nilpotency
11:00 – 11:30	Coffee Break
	Chair: Anna Romanowska (Poland)
11:30 – 12:00	Ara Basmajian The type problem and the geometry of Riemann surfaces
12:00 – 12:30	Victor Shcherbacov On Bol-Moufang type identities
12:30 – 13:00	Victor Pambuccian Can geometry be reduced to algebra?
13:00 – 13:30	Denys Pommeret Gaussianity test for mixture component distribution
13:30 – 15:00	Lunch

Tuesday May 29, 2018. Afternoon Session

Room A	
	Chair: Ara Basmajian (USA)
15:00 – 15:30	Anatoly Vershik Asymptotical properties of the random walks on the discrete groups: absolute and Poisson–Furstenberg boundaries
15:30 – 16:00	Pavel Gevorgyan Dimension of shape maps
16:00 – 16:30	László Szalay Algorithm for solving the equations $2^n \pm \alpha \cdot 2^m + \alpha^2 = x^2$
16:30 – 17:00	Megerdich Toomanian On symmetric product finsler spaces
17:00 – 17:30	Coffee Break

	Room A	Room B
	Chair: J. D.H. Smith (USA)	Chair: V. Arzumianian (Armenia)
17:30 – 17:50	Sergey Davidov Parastrophically Uncancellable Equations with Division and Regular Operations	V. Byrdin On new basis properties of regular and real functions: parity, antiholomorphy, abstract afinite C -tree and polyholomorphy
17:50 – 18:10	Volodymyr Gavrylkiv Automorphism groups of superextensions of semigroups	Majid Erfanian Using of 2D Haar wavelets for solving of mixed 2D nonlinear Fredholm Volterra integral equation
18:10 – 18:30	Evgeny Gordon Finite approximations of topological algebraic structures	Nelly Ajabyan Description of chaotic patterns in models of coupled oscillators in terms of mutual information
18:30 – 18:50	Jaroslav Guričan Distributive lattices with strong endomorphism kernel property as direct sums	Artur Ishkhanyan Generalized hypergeometric solutions of the heun equations
18:50 – 19:10	Heghine Ghumashyan Hyperidentities of associativity in semigroups	

Wednesday May 30, 2018. Morning Session

Room A

	Chair: Mikhail Volkov (Russia)
9:00 – 9:30	Daniele Mundici Artinian AF C^* -algebras whose Murray-von Neumann order of projections is a lattice
9:30 – 10:00	Aram Arutyunov Properties of Surjective Real Quadratic Maps
10:00 – 10:30	Nikolay Romanovski Rigid solvable groups. Algebraic geometry and model theory
10:30 – 11:00	Semyon Nigiyan On arithmetical functions with indeterminate values of arguments
11:00 – 11:30	Coffee Break
	Chair: Victor Pambuccian (USA)
11:30 – 12:00	Grigor Barsegian On some trends and principles related to arbitrary meromorphic or analytic functions in a given domain
12:00 – 12:30	Hakop Hakopian, Vahagn Vardanyan On the usage of lines in GC_n -sets
12:30 – 13:00	Hayk Melikyan Restricted simple Lie algebras
13:00 – 13:30	Ashot Gevorgyan Formation of Massless Bose Particles with Spins 1 as a Result of Random Fluctuations of Vacuum Fields
13:30 – 14:30	Lunch

Wednesday May 30, 2018. Afternoon Session

	Room A	Room B
	Chair: Denys Pommeret (France)	Chair: Chung-Chun Yang (China)
14:30 – 14:50	Joshua Zelinsky Counting ray class characters and the artin primitive root conjecture	Alla Kuznetsova On a class of extensions by compact operators
14:50 – 15:10	Diana Davidova Magic action of o-polynomials and EA-equivalence of Niho bent functions	Mahmood Parsamanesh A discrete-time SIVS epidemic model with constant population size and standard incidence rate
15:10 – 15:30	Abdus Salam, Wajih Ashraf, Noor Mohammad Khan On Sandwich Sets In Legal Semigroups	Yuliya Zelenyuk Counting Symmetric Bracelets
15:30 – 16:00	Coffee Break	

	Room A		Room B
	Chair: Sevak Mkrtchyan (USA)		Chair: Aram Arutyunov (Russia)
16:00 – 16:20	Hrant Hakobyan Extremal length and some applications in Teichmuller theory and Hyperbolic geometry	16:00 – 16:20	Vadim Kaimanovich Circular slider graphs
16:20 – 16:40	Shant Navasardyan The Independence of Axioms of Hypergroup over Group	16:20 – 16:40	N. Aharonyan Two random points in a convex domain
16:40 – 16:55	Albert Gevorgyan On Medial Structures	16:40 – 17:00	Samvel Darbinyan Some remarks on Manoussakis' conjecture for a digraph to be hamiltonian
16:55 – 17:10	Davit Shahnazaryan Invertible binary algebras isotopic to a group or an abelian group	17:00 – 17:20	G. Petrosyan, L. Ter-Vardanyan, A. Gaboutchian Description of the biometric identification process of teeth with the help of Colored Petri Nets
17:10 – 17:25	G. Kirakosyan Interassociativity via hyperidentities	17:20 – 17:40	H. Aslanyan On endomorphisms of CC groups
17:25 – 17:45	R.Gevorgyan, N. Margaryan Existence of Maximum Entropy Problem Solution in a General N-Dimensional Case		

Thursday May 31, 2018. Excursion

9:00 – 17:00	Echmiadzin, Matenadaran, Garni, Geghard
19:00 – 22:00	Conference dinner, “Caucasus”

Friday June 1, 2018. Morning Session

Room A

	Chair: Ivan Shestakov (Brazil)	
9:00 – 9:30	Lilya Budaghyan On Optimal Cryptographic Functions	
9:30 – 10:00	Pavol Zlatoš A Uniform Stability Principle for Dual Lattices	
10:00 – 10:30	Chung-Chun Yang Nevanlinna's value distribution theory and its applications	
10:30 – 11:00	Boris Vernikov On modular and cancellable elements of the lattice of semigroup varieties	
11:00 – 11:30	Coffee Break	
	Chair: Armen Sergeev (Russia)	Poster Presentation
11:30 – 11:50	Robert Mnatsakanov On recovering the compositions of two distributions from moments: Some applications	Hakob Israyelyan About medial pairs of continuous and strictly monotonic binary functions
11:50 – 12:10	V. Mirzoyan Geometry of a class of semisymmetric submanifolds	Mihran Papikian Drinfeld-Stuhler modules
12:10 – 12:30	Onise Surmanidze Universal Topological Abelian Groups	Arman Darbinyan Word and conjugacy problems in finitely generated groups
12:30 – 12:50	Samvel Haroutunian On special class of submanifolds in Pseudoeuclidean Rashevsky space E_n^{2n}	Gevorg Mnatsakanyan Estimates for Strong-Sparse Operators
12:50 – 13:10	Ara Alexanian, A. Minasyan An Upper Bound for the Complexity of Coset Covering of Subsets in a Finite Field	Liana Abrahamyan Characterization of hyperidentities defined by the equalities $((x, y), u, v) = (x, (y, u), v)$ and $((x, y), u, v) = (x, y, (u, v))$
13:10 – 14:30	Lunch	

Friday June 1, 2018. Afternoon Session

Room A

	Chair: Vadim Kaimanovich (Canada)	Poster Presentation
14:30 – 14:50	Rafik Aramyan The sine representation of a convex body	Vazgen Mikayelyan The Gibbs phenomenon for Stromberg systems
14:50 – 15:10	Yuri Hakopian Computation of the Moore-Penrose Inverse for Bidiagonal Matrices	G. Sahakyan About some bilinear forms on the linear spaces of matrices
15:10 – 15:30	E. Haroutunian, P. Hakobyan, A. Yesayan, N. Harutyunyan Multiple hypotheses optimal testing with rejection option for many objects	E. Yeghiazaryan Asymptotic estimates of the number of solutions of systems of equations with determinable partial boolean functions
15:30 – 15:50	M. Haroutunian, K. Mkhitarian, J. Mothe Divergence measures for community detection evaluation	Armen Avagyan New investigating method in the problems hall and sum of three cubes
15:50 – 16:10	Alexander Bufetov Conditional measures of determinantal point processes: the gibbs property and the completeness of reproducing kernels	
16:10 – 16:40	Coffee Break	
	Chair: Onise Surmanidze (Georgia)	
16:40 – 17:00	Victor Arzumanyan, Suren Grigoryan Reduced C^* -algebra of a group graded system	
17:00 – 17:20	Anatolii Zhuchok On free k -nilpotent n -tuple semigroups	
17:20 – 17:40	V. Ohanyan Orientation-dependent distributions of cross-sections	
17:40 – 18:00	T. Harutyunyan About some problems for regular differential operators	
18:00 – 18:20	M. Karakhanyan About algebraic equation with coefficients from the β -uniform algebra $C_\beta(\omega)$	
18:20 – 18:40	Closing remarks	