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

	Chair: Lilya Budaghyan (Norway)
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: László Szalay (Slovakia)	Chair: Mariam Haroutunian (Armenia)
16:00 - 16:20	Sevak Mkrtchyan Rigidity, graphs and Hausdorff dimension	Alexey Yashunsky On subalgebras of probability distributions over finite rings with unity
16:20 - 16:40	Vijay Kumar Bhat Matrix rings as one sided $\sigma - (S, 1)$ rings	Marwan Said Abualrub Long range diffusion-reaction model on population dynamics
16:40 - 17:00	A. Admiralova, V. Beniash-Kryvets On varieties of two dimensional representations of a family of one-relator groups	Doost Ali Mojdeh An extension of Roman dominating function
17:00 - 17:20	Nikolay Kaleyski Changing Points of APN Functions	Kamal Aghigh A survey on residual transcendental extensions of valuations

	Welcome party	
18:00 - 19:00	II Cancasus	

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	Victor Pambuccian Can geometry be reduced to algebra?
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	Lilya Budaghyan On Optimal Cryptographic Functions
13:00 - 13:30	Levon Beklaryan Groups of homeomorphisms of the line and the circle. Criteria for almost nilpotency
13:30 - 15:00	Lunch

Tuesday May 29, 2018. Afternoon Session

	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
	Povel Covernmen
16:00 – 16:30	László Szalay Algorithm for solving the equations $2^n \pm \alpha \cdot 2^m + \alpha^2 = x^2$
	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. Arzumanian (Armenia)	
17:30 – 17:50	Arman Darbinyan Word and conjugacy problems in finitely generated groups	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	Sergey Davidov Parastrophically Uncancellable Equations with Division and Regular Operations		

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	Anatolii Zhuchok On free k-nilpotent n-tuple semigroups
10:30 - 11:00	Nikolay Romanovskiy Rigid solvable groups. Algebraic geometry and model theory
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	Alexander Bufetov Conditional measures of determinantal point processes: the gibbs property and the completeness of reproducing kernels
12:30 - 13:00	Hayk Melikyan Restricted simple Lie algebras
13:00 - 13:30	Ashot Gevorkyan 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	Abdus Salam, Wajih Ashraf, Noor Mohammad Khan On Sandwich Sets In Legal Semigroups	Alla Kuznetsova On a class of extensions by compact operators
14:50 - 15:10	Mihran Papikian Drinfeld-Stuhler modules	Mahmood Parsamanesh A discrete-time SIVS epidemic model with constant population size and standard incidence rate
15:10 - 15:30	Joshua Zelinsky Counting ray class characters and the artin primitive root conjecture	Yuliya Zelenyuk Counting Symmetric Bracelets
15:30 - 16:00	Coffee Break	
_	Room A	Room B

	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	Diana Davidova Magic action of o-polynomials and EA-equivalence of Niho bent functions	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	Denys Pommeret Gaussianity test for mixture component distribution			
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 semig	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	Semyon Nigiyan On arithmetical functions with indeterminate values of arguments	Shant Navasardyan The Independence of Axioms of Hypergroup over Group		
12:10 - 12:30	Onise Surmanidze Universal Topological Abelian Groups	Heghine Ghumashyan Hyperidentities of associativity in semigroups		
12:30 - 12:50	Hakop Hakopian, Vahagn Vardanyan On the usage of lines in GC_n -sets	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 FileId	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

	Chair: Vadim Kaimanovich (Canada)	Poster Presentation
14:30 - 14	Rafik Aramyan The sine representation of a convex body	Vazgen Mikayelyan The Gibbs phenomenon for Stromberg systems
	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	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	M. Haroutunian, K. Mkhitaryan, 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	Samvel Haroutunian On special class of submanifolds in Pseudoeuclidean Rashevsky space E_n^{2n}	
16:10 - 16	40 Coffee Break	
	Chair: Onise Surmanidze (Georgia)	
16:40 – 17	Victor Arzumanian, Suren Grigoryan Reduced C*-algebra of a group graded system	
17:00 - 17	V. Mirzoyan Geometry of a class of semisymmetric submanifolds	
17:20 – 17	V. Ohanyan Orientation-dependent distributions of cross-sections	
17:40 – 18	T. Harutyunyan About some problems for regular differential operators	
	M. Karakhanyan About algebraic equation with coefficients from the eta -uniform algebra $\mathcal{C}_eta(\omega)$	
18:20 – 18	40 Closing remarks	