

CONTRIBUTED TALKS

Section: 2. Algebra	
Author	Title
D. Adamović et al.	On explicit realization of logarithmic modules for certain vertex algebras
M. Butorac	Combinatorial bases of principal subspaces for affine Lie algebra of type $B_2^{(1)}$
M. Jerković et al.	Quasi-particle fermionic formulas for $(k, 3)$ -admissible configurations
O. Perše et al.	Conformal embeddings of affine vertex operator algebras
J. Pita Costa et al.	Coset laws for skew lattices
M. Primc et al.	Combinatorial bases of some representations of symplectic Lie algebras
G. Radobolja	Representations over Virasoro algebra with infinite multiplicities
T. Šikić et al.	Rogers-Ramanujan type identities for level one affine symplectic Lie algebras
G. Trupčević et al.	Combinatorial bases of principal subspaces for affine lie algebra of the type $C_l^{(1)}$

Section: 3. Number Theory	
Author	Title
A. Dujella	On Hall's conjecture
B. Jadrijević	On the minimal index and indices of the form $2^a 3^b$ in a parametric family of bicyclic biquadratic fields
M. Jukić Bokun	Elliptic curves over quadratic fields with fixed torsion subgroup and positive rank
M. Kazalicki et al.	Modular forms, de Rham cohomology and congruences
S. Slijepčević	Delsarte's Method in Number Theory
I. Soldo et al.	The problem of existence of Diophantine quadruples in $\mathbb{Z}[\sqrt{-2}]$
P. Tadić et al.	On the injectivity of the specialization homomorphism

Section: 5. Geometry and Differential Geometry	
Author	Title
Z. Erjavec	On Parallel Surfaces in $\widetilde{\mathbf{SL}(2, \mathbb{R})}$ geometry
M. Šimić Horvath et al.	On Classification of Conic Sections in the Pseudo-Euclidean Plane
D. Svrtan	Intrinsic Geometry of Cyclic Polygons via "New" Brahmagupta Formula
S. Vidak	Geometry of pentagonal quasigroups

Section: 6. Topology	
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N. Koceić Bilan	Algebraic approach to the (coarse) shape path connectedness
V. Matijević et al.	Covering maps over solenoids
N. Uglešić	A complete ultrametric on pro*-morphism sets

Section: 7. Lie Groups and Representation Theory	
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M. Božičević	Asymptotic K -character of nilpotent orbits
N. Grbac	Eisenstein cohomology and Franke filtration
M. Hanzer	Applications of Eisenstein series in construction of automorphic representations
A. Valent	Classification of discrete series of groups $GSp(2n, F)$

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A. Aglič Aljinović	Error bounds for approximations of the integral transforms in the complex domain
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S. Banić et al.	Jensen's inequality for functions superquadratic on the coordinates in a plane
J. Barić et al.	Integral inequalities for superquadratic functions on time scales
I. Brnetić	Some New Opial type Inequalities
T. Burić et al.	Asymptotic expansions of the multiple quotients of the gamma functions
A. Čivljak	Generalizations of Ostrowski inequality involving real Borel measures
I. Franjić et al.	Refinements of the lower bounds of the Jensen functional
J. Jakšetić et al.	Exponential convexity method
D. Jankov et al.	Integral Representations of Functional Series with Members Containing Jacobi Polynomials
S. Kovač et al.	Error bounds for weighted twopoint open and semi-open quadrature rules
M. Krnić et al.	Multidimensional Hilbert-type inequality on the weighted Orlicz spaces
K. Krulić Himmelreich et al.	On refined Hardy-type inequalities with fractional integrals and fractional derivatives
N. Lovričević et al.	Superadditivity of some Jensen-type functionals
Z. Pavić	Jensen's, chord's, and Mercer's inequality
J. Perić et al.	Remarks on the paper "Jensen's inequality and new entropy bounds" of S. Simić
D. Pokaz et al.	A new Boas-type inequality for monotone convex functions
M. Praljak et al.	On potential inequality for convex functions
G. Radunović et al.	Relative zeta functions of fractal sets in Euclidean space
M. Rodić Lipanović et al.	$\{n\}$ -exponential convexity for Jensen-type inequalities
K. Smoljak et al.	Stolarsky type means related to generalizations of Steffensen's and Gauss' inequality
A. Vukelić et al.	Montgomery's identities for function of two variables
D. Žubrinić et al.	Lapidus zeta functions of fractal sets and applications

Section: 9. Operator Algebra and Functional Analysis	
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D. Ilišević et al.	Derivations, automorphisms and elementary operators
B. Kolarec	Extensions of product systems
V. Kovač et al.	Boundedness of some Multilinear Singular Integrals via Dyadic Martingales
J. Mičić et al.	Operator inequalities involving real convex functions
M. Pikula et al.	Solving inverse problems by means Fourier analysis
H. Rafeiro	Grand grand Morrey spaces and boundedness of some classical operators
R. Rajić et al.	The Birkhoff–James orthogonality in Hilbert C^* -modules
I. Slamić et al.	Linear independence and sets of uniqueness

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D. Krizmanić et al.	Functional limit theorem for moving average processes
N. Sandrić	Recurrence and transience property for stable-like Markov chains
A. Tchorbadjieff	Probability estimation of branching processes in atmosphere cosmic ray cascades

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J. Kraljević et al.	Strong and weak solutions of quasilinear elliptic equations with strong dependence on the gradient
M. Lazar et al.	Velocity averaging – a general framework
I. Pažanin	Asymptotic analysis of micropolar fluid flow through a thin pipe

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S. Miličić et al.	Linear singular differential equations in Banach space and nonrectifiable attractivity in two-dimensional linear differential systems
M. Pašić	Some new kinds of attractivity for nonautonomous differential systems
M. Resman	ε -neighbourhoods of orbits and formal classification of parabolic diffeomorphisms
D. Vlah et al.	Fractal properties of Bessel equation
V. Županović et al.	Multiplicity of fixed points and growth of ε -neighborhoods of orbits

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D. Kovačević et al.	Kappa-Minkowski spacetime, kappa-Poincaré Hopf algebra and realizations

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A. Nakić et al.	Tight sets on the Hermitian variety $H(2r + 1, q^2)$
P. Ó Catháin	Symmetric designs, difference sets and Hadamard matrices
M. Pavčević et al.	Kramer-Mesner method enhancements
J. Sedlar	On augmented eccentric connectivity index of graphs and trees
L. Simčić et al.	Self-orthogonal codes constructed from orbit matrices of block designs
M. Sošić	Computation of constants in multiparametric algebras of noncommutative polynomials
L. Storme et al.	Erdős-Ko-Rado theorems in finite classical polar spaces
A. Švob et al.	On some transitive combinatorial structures constructed from the unitary group $U(3, 3)$
K. Tabak	Norm invariance method and applications
T. Vučićić et al.	On the number of primitive designs on projective line and their antiflag-transitivity

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I. Kuzmanović et al.	Sherman-Morrison-Woodbury formula for Sylvester and T -Sylvester equation
S. Maćešić et al.	Backward-in-time Probabilistic Method Applied to the Golf of Mexico Oil Spill
J. Matejaš et al.	The Kogbetliantz Method is Accurate
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K. Sabo et al.	Cluster stability in a partition and applications

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I. Nakić et al.	Generalized Eigenvalue Problems with Specified Eigenvalues

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D. Vukićević	Complex networks

Section: 19. Mathematics Education and Popularization of Mathematics	
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A. Čizmešija et al.	The Trigonometric Functions - Concept Images of the First-Year Students of Mathematics Education at the Department of Mathematics, University of Zagreb
B. Divjak et al.	Mathematical proof and students' beliefs about counterexample at non-mathematical faculty
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