



*The 83rd Workshop on General Algebra
& the 27th Conference of Young Algebraists*

*83. Arbeitstagung allgemeine Algebra
& 27. Tagung junger Algebraiker*

Novi Sad, Serbia, March 15-18, 2012

PROGRAM

Wednesday, March 14 (arrival day)

14:00 – 20:30 Registration (Room 16 – Department of Mathematics and Informatics, ground floor)

Thursday, March 15

8:30 – 9:15 Registration (Room 16)

	Amphitheatre I	Amphitheatre V
9:30 – 9:45	Opening ceremony	
	SESSION 1 (Chair: Dragan Mašulović)	
9:45 – 10:35	Manfred Droste: <i>Automorphism groups of ordered sets and the Bergman property</i>	
10:40 – 11:10	COFFEE BREAK	
11:10 – 12:00	John K. Truss: <i>Homogeneous multipartite graphs</i>	
12:05 – 14:30	LUNCH BREAK	
	SESSION 2 (Chair: Marcin Kozik)	
14:30 – 15:20	Libor Barto: <i>Robust algorithms for CSPs</i>	
15:25 – 15:55	Erhard Aichinger: <i>On the direct decomposition of nilpotent expanded groups</i>	
16:00 – 16:30	COFFEE BREAK	
	SESSION 3A (Chair: Erhard Aichinger)	SESSION 3B (Chair: Manfred Droste)
16:30 – 16:50	Gábor Czédli: <i>The asymptotic number of ways to intersect two composition series</i>	Anna Mućka: <i>Many-sorted and single-sorted algebras</i>
16:55 – 17:15	Peeter Puusemp: <i>Unary polynomial functions on a class of finite groups</i>	Anna Romanowska: <i>Generalized convexity and closure conditions</i>
17:20 – 17:40	Nebojša Mudrinski: <i>How many higher commutator operations can we define on the congruence lattice of a given Mal'cev algebra?</i>	Anna Zamojska-Dzienio: <i>Representing lattices by lattices of subclasses</i>
17:45 – 18:05	Erkko Lehtonen: <i>Generalized entropy in algebras with neutral element and in inverse semigroups</i>	Vanja Stepanović: <i>Weak congruence representability of lattices and related Delta-suitability of their elements</i>

Friday, March 16

	Amphitheatre I	Amphitheatre V
	SESSION 4 (Chair: Igor Dolinka)	
9:00 – 9:50	Nikola Ruškuc: <i>Generating direct powers</i>	
9:55– 10:25	Mark Kambites: <i>Multiplication and geometry of tropical matrices</i>	
10:30 – 11:00	COFFEE BREAK	
	SESSION 5A (Chair: Mark Kambites)	SESSION 5B (Chair: Maja Pech)
11:00 – 11:20	Marianne Johnson: <i>Idempotent tropical matrices and their (tropical) geometry</i>	Karsten Schölzel: <i>The minimal clones generated by semiprojections on a four-element set</i>
11:25 – 11:45	Kamilla Kátai-Urbán: <i>Piecewise testable languages and the word problem</i>	Hajime Machida: <i>Centralizing monoids on a three-element set</i>
11:50 – 12:10	Jörg Koppitz: <i>New maximal subsemigroups of the semigroup of all transformations on a countable set</i>	Sebastian Kerkhoff: <i>Essential variables of cooperations and the consequences for operations</i>
12:15 – 14:30	LUNCH BREAK	
	SESSION 6 (Chair: Nebojša Mudrinski)	
14:30 – 15:20	Miguel Couceiro: <i>Lattice polynomial functions and their use in qualitative decision making</i>	
15:25 – 15:55	Reinhard Pöschel: <i>Galois connections between group actions and functions - some results and problems</i>	
16:00 – 16:30	COFFEE BREAK	
	SESSION 7A (Chair: Libor Barto)	SESSION 7B (Chair: Miguel Couceiro)
16:30 – 16:50	Dejan Delić: <i>CSP dichotomy and H-bipartite digraphs</i>	Tamás Waldhauser: <i>Local monotonicities and lattice derivatives of Boolean and pseudo-Boolean functions</i>
16:55 – 17:15	Jakub Bulín: <i>CSP dichotomy for special oriented trees</i>	Eszter K. Horváth: <i>On symmetry groups of Boolean and other functions</i>

19:00 - ... Conference dinner ("Plava frajla" restaurant)

Saturday, March 17 - Morning

	Amphitheatre I	Amphitheatre V	Amphitheatre VII
	SESSION 8 (Chair: R. D. Gray)		
9:00 – 9:50	Manuel Bodirsky: <i>Topological Birkhoff</i>		
9:55 – 10:25	John C. Meakin: <i>Inverse semigroups: some open problems</i>		
10:30 – 11:00	COFFEE BREAK		
	SESSION 9A (Chair: M. Bodirsky)	SESSION 9B (Chair: M. B. Szendrei)	SESSION 9C (Chair: A. Zamojska-Dz.)
11:00 – 11:20	Mike Behrisch: <i>Decomposing distributive lattices up to polynomial equivalence using RST</i>	Yeni Susanti: <i>Semigroups of n-ary operations on finite sets</i>	Oleg Kořik: <i>Categorical equivalence of semilattices and lattices</i>
11:25 – 11:45	Friedrich Martin Schneider: <i>A relational localisation theory for topological algebras</i>	Alexander Jende: <i>Maximal coregular semigroups of $K(n,2)$</i>	Michał Stronkowski: <i>Almost structural completeness; an algebraic approach</i>
11:50 – 12:10	Wolfram F. Bentz: <i>An "easy" problem by McNulty</i>	Alex Bailey: <i>Stably weakly coreflective subcategories of the category of acts over a monoid</i>	Bojan Bařić: <i>Palindromic defect and highly potential words</i>
12:15 – 14:30	LUNCH BREAK		

Saturday, March 17 - Afternoon

	Amphitheatre I	Amphitheatre V	Amphitheatre VII
	SESSION 10 (Chair: J. C. Meakin)		
14:30 – 15:20	Robert D. Gray: <i>Free idempotent generated semigroups over the full linear monoid</i>		
15:25 – 15:45	SHORT COFFEE BREAK		
	SESSION 11A (Chair: J. K. Truss)	SESSION 11B (Chair: M. Johnson)	SESSION 11C (Chair: P. Đapić)
15:45 – 16:05	Christian Pech: <i>Universal homogeneous constraint structures and the hom-equivalence classes of weakly oligomorphic structures</i>	Evgenii L. Bashkirov: <i>On linear groups of degree 2 over a finite-dimensional algebra over a finite field</i>	Přemysl Jedlička: <i>Equational theory of left divisible left distributive groupoids</i>
16:10 – 16:30	Dragan Mašulović: <i>Properties of the automorphism group and a probabilistic construction of a class of countable labeled structures</i>	Wolfgang Leeb: <i>Linear complexity of extensions of Fermat quotients</i>	Vesna Celakoska-Jordanova: <i>Monoids of powers in varieties of f-idempotent groupoids</i>
16:35 – 16:55	Predrag Tanović: <i>On Kueker's conjecture</i>	Ayan Mahalanobis: <i>The discrete logarithm problem in semisimple group algebras</i>	Valentina Miovska: <i>Generalized $(m+k, m)$-bands</i>
17:00 – 17:20	SHORT COFFEE BREAK		
	SESSION 12 (Chair: N. Ruškuc)		
17:20 – 18:10	Peter Mayr: <i>Almost all finite semigroups are finitely related</i>		

Sunday, March 18

	Amphitheatre I
	SESSION 13 (Chair: Reinhard Pöschel)
9:00 – 9:50	Marcin Kozik: <i>Mal'cev conditions derived from hereditary properties (and other algebraic malfunctions)</i>
9:55 – 10:25	Petar Marković: <i>CSP dichotomy on small structures</i>
10:30 – 11:00	COFFEE BREAK
11:00 – 11:50	Catarina A. Carvalho: <i>Algebra, graphs and dualities</i>
11:55 – 12:10	Closing