

AAA60

Conference Programme

Arbeitstagung Allgemeine Algebra — Workshop on General Algebra
June 22–25, 2000, Dresden University of Technology

Since 30 years, the AAA Workshop on General Algebra (meanwhile merged with the “Konferenz Algebra und Grenzgebiete” and the “Konferenz junger Algebraiker”) is being held semi-annually in Germany or its neighbouring countries. This 60th workshop was organized by the Dresden Institute of Algebra.

Special thanks go to Thomas Babel, Ulrike Baumann, Ralf Borgschulze, Jürgen Brunner, Heinz Flack, Egbert Fohry, Jens-Uwe Grabowski, Daniel Kirsten, Ralph Kummetz, Leonard Kwuida, Dietrich Kuske, Michael Mieth, Christian Pech, Susanne Platzhoff, Ingrid Reim, Martin Rößiger, Irmgard Schmeichel, Gudrun Seidel, and Heinrich Seidel for their organizational work.

The organizing committee

Manfred Droste, Bernhard Ganter, Reinhard Pöschel

The workshop is supported by the Saxonian Minister für Wissenschaft und Kunst.

(last update: (9:00) June 25, 2000)

AAA60: Thursday, June 22: 6 - 8:30 p.m. Registration and get-together, Willersbau C207.

AAA60: Friday, June 23 (last update: (9:00) June 25, 2000)

The rooms C207 and C106 can be used for breaks and discussions, too

	Lecture Hall A317	Lecture Hall B321	Seminar Room B122	Seminar Room C206
$8^{00}-8^{50}$	Registration in room C207			
8^{50}	Announcements			
$9^{00}-9^{10}$	opening (by Rector and Dean)			
$9^{15}-10^{05}$	<p>chair: <u>Rosenberg, Ivo G.</u></p> <p>invited lecture</p> <p>Valeriote, Matt On Finitely Decidable Varieties</p>			
	coffee break (C207)			
$10^{45}-11^{00}$	<p>chair: <u>Kaarli, Kalle</u></p> <p>_____</p>	<p>chair: <u>Denecke, Klaus</u></p> <p>Wille, Rudolf Boolean Concept Logic</p>	<p>chair: <u>Wehrung, Friedrich</u></p> <p>????, ???? ???</p>	<p>chair: <u>Márki, László</u></p> <p>Bell, Howard E. Rings with finitely many nilpotents: applications to commutativity</p>
$11^{05}-11^{20}$	<p>Hounnon, Hippolyte All solid varieties of semirings</p>	<p>Sukhanov, Eugeny Algebraic and combinatorial properties of formal languages</p>	<p>Repnitskii, Vladimir B. On the Representation of Monoids by O-Endomorphisms of linearly ordered Sets</p>	<p>Paseka, Jan Interior tensor product of Hilbert modules</p>
$11^{30}-11^{45}$	<p>Porst, Hans-E. Hu's Primal Algebra Theorem Revisited</p>	<p>Polák, Libor A construction of the syntactic semilattice-ordered monoid of a regular language</p>	<p>Seselja, Branimir Posets and meet-irreducibles</p>	<p>Fried, Ervin On the solvability of equations of higher degree</p>
$11^{50}-12^{05}$	<p>Pinus, Alexandr On the scales of potentials of calculability for universal algebras</p>	<p>????, ???? ????</p>	<p>Schweigert, Dietmar Presentation of power-ordered sets</p>	<p>Hort, Daniel Lex ideals of generalized MV-algebras</p>
	lunch break			

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	Lecture Hall A317	Lecture Hall B321	Seminar Room B122	Seminar Room C206
13 ⁴⁰ –14 ³⁰	<p style="text-align: center;"><u>chair: Romanowska, Anna</u></p> <p>invited lecture</p> <p>Tholen, Walter Some recent categorical developments useful for universal algebraists</p>			
14 ⁴⁵ –15 ⁰⁰ 15 ⁰⁵ –15 ²⁰	<p style="text-align: center;"><u>chair: Graczynska, Ewa</u></p> <p>Tonga, Marcel Strong congruences and Mal'cev conditions on first order structures</p> <p>Vanžurová, Alena Generalized diagonal algebras and rectangular algebras</p>	<p style="text-align: center;"><u>chair: Kuske, Dietrich</u></p> <p>Kirsten, Daniel Applying Semigroup Theory to Solve a Problem in Trace Theory</p> <p>Holub, Štěpán Characterization of binary equality sets</p>	<p style="text-align: center;"><u>chair: Quackenbush, Bob</u></p> <p>McNulty, George Varieties Generated by a Finite Group</p> <p>Pálffy, Péter P. On the isomorphism problem of Cayley graphs</p>	<p style="text-align: center;"><u>chair: Repnitskii, Vladimir B.</u></p> <p style="background-color: #e0e0e0;">????, ???? ????</p> <p>Lenz, Rainer Endo- and polymorphisms of finite strict orders</p>
coffee break (C207)				
16 ⁰⁰ –16 ¹⁵ 16 ²⁰ –16 ³⁵	<p style="text-align: center;"><u>chair: Vogel, Hans-Jürgen</u></p> <p>Holzer, Richard Greechie diagrams of orthomodular algebras</p> <p>Burmeister, Peter On some properties of small orthomodular partial algebras (OMAs)</p>	<p style="text-align: center;"><u>chair: Kirsten, Daniel</u></p> <p>Sushchansky, Vitaly Semigroups of Automaton Transformations</p> <p>Shtrakov, Slavcho Tree Automata and Essential Input Variables</p>	<p style="text-align: center;"><u>chair: McNulty, George</u></p> <p>Volkov, Mikhail A polynomially computable idempotent in the kernel of the free profinite semigroup</p> <p>Erné, Marcel Free two-sided join-semirings</p>	<p style="text-align: center;"><u>chair: Pálffy, Péter P.</u></p> <p>Vojtěchovský, Petr Generators for finite simple Moufang loops</p> <p>Pszczola, Krzysztof A duality for affine spaces over finite fields</p>
16 ⁵⁰ –17 ⁰⁵ 17 ¹⁰ –17 ²⁵ 17 ³⁰ –17 ⁴⁵	<p style="text-align: center;"><u>chair: Sukhanov, Eugeny</u></p> <p>Jakubíková-Studenovská, Danica DR-irreducibility of monounary algebras</p> <p>Bulatov, Andrei On the number of Mal'tsev algebras</p> <p>Bredikhin, Dmitri On Identities and Quasiidentities of Algebras of Relations</p>	<p style="text-align: center;"><u>chair: Heindorf, Lutz</u></p> <p style="background-color: #e0e0e0;">Molchanov, Vladimir Nonstandard Approach to Generally Rational Languages</p> <p style="background-color: #e0e0e0;">Pollandt, Silke An application of lattice theory in ordinal data analysis</p> <p style="background-color: #e0e0e0;">????, ???? ????</p>	<p style="text-align: center;"><u>chair: Shtrakov, Slavcho</u></p> <p style="background-color: #e0e0e0;">????, ???? ????</p> <p>Denecke, Klaus Tree-Hyperrecognizers</p> <p>Todorov, Kalco On some algebras of N-generated quaternion groups</p>	<p style="text-align: center;"><u>chair: Niederle, Josef</u></p> <p>Kaleta, Joanna A bi-quasiring characterization of Boolean rings</p> <p>Dorfer, Gerhard Regularity of generalized MV-algebras</p> <p>Tieudjo, Daniel A classification of the varieties of rings</p>
19 ³⁰ –23...	Evening party in the building "Neue Mensa"			

AAA60: Saturday, June 24 (last update: (9:00) June 25, 2000)

The rooms C207 and C106 can be used for breaks and discussions, too

	Lecture Hall A317	Lecture Hall B321	Seminar Room B122	Seminar Room C206
9 ⁰⁰	Announcements			
9 ¹⁵ –10 ⁰⁵	<p align="right"><u>chair: Pálffy, Péter P.</u></p> invited lecture Göbel, Rüdiger Automorphism groups in geometric lattices			
coffee break (C207)				
10 ⁴⁵ –11 ⁰⁰	<p align="right"><u>chair: Bulatov, Andrei</u></p> Goldstern, Martin Clones on regular cardinals	<p align="right"><u>chair: Burmeister, Peter</u></p> Skowronek-Kaziw, Joanna Matroids and contexts connected with them	<p align="right"><u>chair: Erné, Marcel</u></p> Droste, Manfred The automorphism group of the universal distributive lattice	<p align="right"><u>chair: Roszkowska-Lech, Barbara</u></p> Gyurov, Boyko Regular Semigroups satisfying the Equation $eab = eabeb$ for all $a, b \in S$ and $e \in E(S)$
11 ⁰⁵ –11 ²⁰	Szabo, Laszlo Clones and weak automorphisms	Zadori, Laszlo The complexity of the extendibility problem for finite posets	Kuske, Dietrich The automorphism group of the universal homogeneous countable semilattice	Niederle, Josef On pseudocomplemented and Stone ordered sets
11 ³⁰ –11 ⁴⁵	Eskov, Vitali On some clones with respect to action of symmetrical groups	Voss, Heinz-Juergen Groups, Sachs Triangulations and Regular Maps	Wehrung, Friedrich Proof of 1-dimensional congruence lattice problem for distributive lattices	Suszczańska, Nina On some universal algebras using in NL-semantics
11 ⁵⁰ –12 ⁰⁵	Galuszka, Jan Finite idempotent groupoids with small clones	?????, ????? ???	Tůma, Jiří Unsolvable one-dimensional lifting problems for congruence lattices of lattices	Farley, Jonathan D. A Dilworth-type Covering Theorem for Semidistributive Lattices
lunch break				

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13 ⁴⁰ –14 ³⁰	<p style="text-align: right;"><u>chair: Volkov, Mikhail</u></p> <p>invited lecture</p> <p>Kiss, Emil Rectangularity</p>			
14 ⁴⁵ –15 ⁰⁰	<p style="text-align: right;"><u>chair: Eigenthaler, Günther</u></p> <p>Quackenbush, Bob Representation Classes of Binary Linear Codes</p>	<p style="text-align: right;"><u>chair: Pech, Christian</u></p> <p>Markovski, Smile Groupoids orthogonal to quasigroups and their application</p>	<p style="text-align: right;"><u>chair: Paseka, Jan</u></p> <p>Lemin, Alex Boolean Algebras Describe Ultrametric Spaces up to Uniform Euivalence</p>	
15 ⁰⁵ –15 ²⁰	<p>Aichinger, Erhard Polynomial functions on Ω-groups</p>	<p>Sokolova, Ana On the groupoid identity $x(xy) = y$</p>	<p>Ploščica, Miroslav Dual spaces for some congruence lattices of lattices</p>	
coffee break (C207)				
16 ⁰⁰ –16 ¹⁵	<p style="text-align: right;"><u>chair: Pinus, Alexandr</u></p> <p>Chajda, Ivan On n-permutable and distributive-at-0 varieties</p>	<p style="text-align: right;"><u>chair: Fried, Ervin</u></p> <p>Graczyńska, Ewa Operads in universal algebra</p>	<p style="text-align: right;"><u>chair: Seselja, Branimir</u></p> <p>Reinhold, Jürgen The number of finite distributive lattices</p>	
16 ²⁰ –16 ³⁵	<p>Binczak, Grzegorz A simple algebraic characterization of weak equational theories</p>	<p>Leseberg, Dieter A new concept of nearness</p>	<p>Heitzig, Jobst Distance in lattices</p>	
16 ⁵⁰ –17 ⁰⁵	<p style="text-align: right;"><u>chair: Mašulović, Dragan</u></p> <p>Adams, Mick A connection between finite-to-finite universal and Q-universal quasivarieties</p>	<p style="text-align: right;"><u>chair: Molchanov, Vladimir</u></p> <p>Otryvankina, Tatiana Nonstandard varieties of topological algebraic automata</p>	<p style="text-align: right;"><u>chair: Chajda, Ivan</u></p> <p>Halaš, Radomir Annihilator theory for some classes of algebras</p>	
17 ¹⁰ –17 ²⁵	<p>Tasić, Boža A note on quasivarieties</p>	<p>Klimes, Jiri Fixed Point Theorems</p>	<p>Kaarli, Kalle On locally order affine complete lattices</p>	
17 ³⁰ –17 ⁴⁵	<p>????, ????</p> <p>????</p>	<p>Vernitski, Alexei MathCaffeine: the web-based library of algebraic definitions and results</p>	<p>Ruzicka, Pavel Algebraic distributive lattices, dimension groups and von Neumann regular rings</p>	
For the evening: may be you are interested in the “Dresdner Elbhangfest” (ask for information)				

AAA60: Sunday, June 25 (last update: (9:00) June 25, 2000)

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	Lecture Hall A317	Lecture Hall B321	Seminar Room B122	Seminar Room C206
9^{00}	Announcements			
9^{15} – 9^{30}	<u>chair: Sushchansky, Vitaly</u> Börner, Ferdinand Total multifunctions and relations	<u>chair: Todorov, Kalco</u> Lele, Celestin Some properties of fuzzy positive implicative ideal in BCK-algebras	<u>chair: McNulty, George</u> Szylicka, Zyta Subdirectly irreducible generalized sums	
9^{35} – 9^{50}	Rosenberg, Ivo G. Local completeness	Tepavcevic, Andreja Partial closure operators	Roszkowska-Lech, Barbara On subdirectly irreducible groupoid modes	
10^{05} – 10^{20}	Grabowski, Jens-Uwe Varieties of relational structures	Kovachev, Dimiter On the Number of Some k -valued Functions	Romanowska, Anna Embedding semilattice sums of cancellative modes into semimodules	
10^{25} – 10^{40}	Mašulović, Dragan On an algebra of co-relations on a finite set	Damianov, Ivo On the structural properties of Diskrete Functions	Pilitowska, Agata The lattice of varieties of some ternary modes	
coffee break (C207)				
11^{10} – 12^{00}	<u>chair: Wille, Rudolf</u> invited lecture Gumm, H. Peter Universal coalgebra - a theory of state based systems			
12^{05} – 12^{10}	closing			

changes are marked by gray color