

# AAA87 & CYA28 – Schedule of Lectures

Friday, February 7th, Morning

The talks are scheduled for 20 (or 50) minutes in length, followed by a 5 minute discussion period and a 5 minute break in order to allow participants to change sessions.

	<b>Lecture Hall HS 18</b> Chair: Sebastian Kerkhoff		
9:00 - 10:00	<b>Ross Willard</b> The finite basis problem re-visited		
10:00 - 10:30	Coffee break		
	<b>Lecture Hall HS 18</b> Chair: Howard E. Bell	<b>Lecture Hall HS 19</b> Chair: Mike Behrisch	<b>Seminar Room 055</b> Chair: Valdis Laan
10:30 - 11:00	<b>Arne Winterhof</b> Variants of Waring's problem in finite fields	<b>Nebojša Mudrinski</b> Supernilpotent Mal'cev algebras	<b>Ivan Chajda</b> Coupled near semirings
11:00 - 11:30	<b>Volker Ziegler</b> On distinct unit generated fields	<b>Jakub Opršal</b> A relational description of higher commutators in Mal'cev algebras	<b>Miroslav Korbelař</b> Idempotency and finitely generated semifields
11:30 - 12:00	<b>Josef Schicho</b> Linkages with helical joints	<b>Wolfram Bentz</b> Is dualizability of nilpotent algebras decidable?	<b>Helmut Länger</b> Multiplicatively idempotent semirings
12:00 - 12:30	<b>Georg Grasegger</b> Rational and radical solutions of algebraic differential equations	<b>David Stanovský</b> Is there an interesting concept of "binary abelianess"?	<b>Oleg Kořik</b> Categorical equivalence of rings with unity

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Friday, February 7th, Afternoon

	<b>Lecture Hall HS 18</b> Chair: A. Zamojska-Dzienio		
14:00 - 15:00	<b>Clemens Fuchs</b> Commutative algebra groups and $p$ -adic linear forms		
	<b>Lecture Hall HS 18</b> <b>Special session on near-rings in honour of Günter Pilz</b> Chair: Wen-Fong Ke	<b>Lecture Hall HS 19</b> Chair: Jakub Bulín	<b>Seminar Room 055</b> Chair: Diana Davidova
15:00 - 15:30	<b>Carl Maxson</b> G.P.		
15:30 - 16:00	<b>Carl Maxson</b> Linearity in near-rings of homogeneous functions	<b>Eszter K. Horváth</b> Lattice-induced threshold functions and Boolean functions	<b>Milan Petřík</b> On elementary extensions of finite negative commutative tomonoids
16:00 - 16:30	Coffee break		
16:30 - 17:00	<b>Günter Pilz</b> Algorithmic near-ring theory	<b>Michiro Kondo</b> Galois connection and relatively complete subalgebras of residuated lattices	<b>Danica Jakubíková-Studenovská</b> Properties of lattices of convex subsets of monounary algebras
17:00 - 17:30	<b>Stefan Veldsman</b> Commutators for near-rings	<b>Anna Zamojska-Dzienio</b> Free semilattice ordered algebras and their subreducts	<b>Milan Stehlík</b> On some problems between algebra and statistics
17:30 - 18:00	<b>Geoff Booth</b> Subnear-rings of near-rings of continuous functions	<b>Agata Pilitowska</b> Power representation of semilattice ordered algebras	<b>Ádám Kunos</b> Definability in the embeddability ordering of finite directed graphs
18:00 - 18:30	<b>Hubert Kiechle</b> Topological planar near-rings	<b>Gergő Gyenizse</b> On automorphisms of the poset of the isomorphism classes of finite groups	<b>Marijana Lazić</b> On a class of finite modular congruence lattices
18:30 - 19:00	<b>Gerhard Betsch</b> Some turning points in near-ring theory—and a poem by G.P.		
19:00	Reception in Repräsentationsraum A (above the Mensa)		

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Saturday, February 8th, Morning

	<b>Lecture Hall HS 18</b> Chair: Gábor Horváth		
9:00 - 10:00	<b>Agata Ciabattoni</b> (Algebraic) Proof Theory for Substructural Logics and Applications		
10:00 - 10:10	AAA — Organisation meeting		

10:10 - 10:30	Coffee break		
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	<b>Lecture Hall HS 18</b> Chair: Johan H. Meyer	<b>Lecture Hall HS 19</b> Chair: David Stanovský	<b>Seminar Room 055</b> Chair: Jan Paseka
10:30 - 11:00	<b>Gerhard Wendt</b> Minimal left ideals in near- rings	<b>Reinhard Pöschel</b> The Galois connection ePol – eInv and non-finitely related clones	<b>Diana Davidova</b> $q$ -lattice hyperidentities
11:00 - 11:30	<b>Tim Boykett</b> Radical structure in au- tomata nearrings	<b>Mike Behrisch</b> A new(?) Galois theory for weighted relations	<b>Jörg Koppitz</b> Stable varieties of semi- groups
11:30 - 12:00	<b>Wen-Fong Ke</b> Semi-homomorphisms on nearrings	<b>Michael Pinsker</b> The topology of countable algebras, or: Polish clones	<b>Sergejs Solovjovs</b> On a characterization of the categories of preordered sets and quasi-pseudo-metric spaces
12:00 - 12:30	<b>Howard E. Bell</b> On factorization in arbi- trary rings	<b>Sebastian Kerkhoff</b> Clones with majority opera- tions	<b>Valdis Laan</b> On injective hulls of $S$ - posets

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	<b>Lecture Hall HS 18</b> Chair: Catarina Carvalho		
14:30 - 15:30	<b>Andrei Bulatov</b> Galois connection and approximate counting		
	<b>Lecture Hall HS 18</b> Chair: Wolfram Bentz	<b>Lecture Hall HS 19</b> Chair: Michael Pinsker	<b>Seminar Room 055</b> Chair: Jörg Koppitz
15:30 - 16:00	<b>Johan H. Meyer</b> Identifying automorphisms of abelian groups	<b>Erhard Aichinger</b> Subvarieties and clones	<b>Jiří Rachůnek</b> Ideals and congruences in residuated lattices
16:00 - 16:30	Coffee break		
16:30 - 17:00	<b>Gábor Horváth</b> Algebra in the service of analysis	<b>Hajime Machida</b> Essentially minimal clones of rank 3 on $E_3$	<b>David Kruml</b> On lattice spectra of $C^*$ -algebras
17:00 - 17:30	<b>Markus Steindl</b> Closure of subpowers	<b>Jan Paseka</b> On a representation of a certain class of abelian pomonoids	<b>Jan Kühr</b> On varieties of lattice-ordered effect algebras
17:30 - 18:00	<b>Frederik Saxinger</b> Counting polynomial functions of commutative rings with characteristic $p$	<b>Dejan Delić</b> Positive-primitive bi-interpretability of finite oriented trees	<b>Anatolii V. Zhuchok</b> On free products of dimonoids
18:00 - 18:30	<b>Franz Binder</b> Computations with generators of near-rings	<b>Attila Földvári</b> The equivalence and equation solvability problems over some finite groups	<b>Iurii V. Zhuchok</b> Endomorphisms of free dimonoids

# AAA87 & CYA28 – Schedule of Lectures

Sunday, February 9th, Morning

	<b>Lecture Hall HS 18</b> Chair: Jakub Opršal		
9:00 - 10:00	<b>Dmitriy Zhuk</b> On relations preserved by a weak near-unanimity function		
10:00 - 10:30	Coffee break		
	<b>Lecture Hall HS 18</b> Chair: Danica Jakubíková-Studenovská	<b>Lecture Hall HS 19</b> Chair: Kamilla Kátai-Urbán	<b>Seminar Room 055</b> Chair: Agata Pilitowska
10:30 - 11:00	<b>Nóra Szakács</b> On the membership problem for closed inverse submonoids of inverse monoids	<b>Laura Paladino</b> Local-global divisibility problems in commutative algebraic groups	<b>Dietmar Dorninger</b> On algebras of multidimensional probabilities related to quantum logic
11:00 - 11:30	<b>Mikhail Volkov</b> The finite basis problem for Kauffman monoids	<b>Amir Ehsani</b> Linear representation of $n$ -ary paramedial groupoids	<b>Přemysl Jedlička</b> Cyclic semidirect extensions of commutative automorphic loops
	<b>Lecture Hall HS 18</b> Chair: Hajime Machida		
11:30 - 12:30	<b>Marcel Jackson</b> The algebra of partial maps		
12:30 - 12:45	Closing		