

# Program of the AAA75+CYA23

from Nov. 2<sup>nd</sup> to Nov. 4<sup>th</sup>, 2007  
Darmstadt University of Technology

Final version from November 4<sup>th</sup>, 2007

Friday, November 2<sup>nd</sup>

Before the conference officially starts at 14.00 o'clock there is a  
special lecture in the Ernst-Schröder-Saal (S1 03|223)  
in honour of the 70<sup>th</sup> birthday of Rudolf Wille.

It starts with "greetings" at 10.30 o'clock and ends at 12.00 o'clock:

Pirmin Stekeler-Weithofer:

*Informale und Formale Logik in der Mathematik*

There follows from 12.00 to 13.00 a birthday reception in front of the lecture  
hall.

**Registration for AAA75+CYA23:**

12.30 – 14.00 in a corner in front of the Ernst-Schröder-Saal.

**Start of the lectures of AAA75+CYA23 on  
Friday, November 2<sup>nd</sup> at 14.00 o'clock.**

<b>14.00 at Ernst-Schröder-Saal</b>	<b>Plenary session</b> Chair: Bernhard Ganter
<b>Reinhard Pöschel:</b>	<i>Clones and Galois connections</i>

**15.00 – 15.30: Coffeebreak**

**15.30 – 17.30: Special lectures in three sections:**

<b>15.30 at S1 03 223</b>	<b>General Algebra</b> Chair: Kaarli
15.30 – 15.50	Klaus Denecke: <i>Dimension and Degree of a Variety</i>
16.00 – 16.20	Ewa Graczyńska: <i>M-solid quasivarieties</i>
16.30 – 16.50	Rattana Srithus: <i>The Upper Bounds of The Degree of Proper Hypersubstitutions</i>
17.00 – 17.20	NN

<b>15.30 at S1 03 123</b>	<b>Lattice Theory</b> Chair: Erné
15.30 – 15.50	Agostinho Almeida: <i>Canonical extensions and relational representations of lattices with negation</i>
16.00 – 16.20	Afrodita Iorgulescu: <i>Pseudo-<math>\alpha\gamma</math> algebras - a new class of non-commutative residuated lattices</i>
16.30 – 16.50	Michiro Kondo: <i>Linearity conditions on commutative residuated lattices</i>
17.00 – 17.20	Karl Erich Wolff: <i>Fulfilling Birkhoff's Dream: Applications of Conceptual Semantic Systems</i>

<b>15.30 at S1 03 23</b>	<b>Classical Algebra</b> Chair: Herrmann
15.30 – 15.50	Horea Florian Abrudan: <i>On Regular Endomorphism Rings of Topological Abelian Groups</i>
16.00 – 16.20	Miroslav Kolařík: <i>A common approach to directoids with an antitone involution and D-quasirings</i>
16.30 – 16.50	Evgenii Bashkirov: <i>Jordan algebras and linear groups over locally finite associative rings</i>
17.00 – 17.20	Gerhard Wendt: <i>On zero divisors and units in near-rings</i>

**17.30 – 18.00: Coffeebreak**

<b>18.00 at Ernst-Schröder-Saal</b>	<b>Plenary session</b> Chair: Chajda
<b>Gábor Czédli:</b>	<i>Stronger association rules in algebra</i>

## Saturday, November 3<sup>rd</sup>

<b>9.00 at Ernst-Schröder-Saal</b>	<b>Plenary session</b> Chair: Wille
<b>Mai Gehrke:</b>	<i>Canonical extensions, Duality theory, and Formal Concept Analysis</i>

**10.00 – 11.00: Coffeebreak**

**11.00 – 13.00: Special lectures in three sections:**

<b>11.00 at S1 03 223</b>	<b>General Algebra</b> Chair: Gumm
11.00 – 11.20	Martin Goldstern: <i>Local vs global clones</i>
11.30 – 11.50	Peter Mayr: <i>Polynomial clones on squarefree groups and Mal'cev algebras</i>
12.00 – 12.20	Péter P. Pálffy: <i>Functionally complete minimal clones</i>
12.30 – 12.50	Erhard Aichinger: <i>Some applications of higher commutators to Mal'cev algebras</i>

<b>11.00 at S1 03 123</b>	<b>Lattice Theory</b> Chair: Paseka
11.00 – 11.20	Miroslav Haviar: <i>Studying full dualities via coloured ordered sets</i>
11.30 – 11.50	Kalle Kaarli: <i>Polynomial completeness properties for lattices</i>
12.00 – 12.20	Jan Kühr: <i>Posets with sectional antitone mappings and related structures</i>
12.30 – 12.50	Sándor Radeleczki: <i>The problem of the classification and extent partitions</i>

<b>11.00 at S1 03 23</b>	<b>Classical Algebra</b> Chair: Schmidt
11.00 – 11.20	Ilinka Dimitrova: <i>On the Maximal Subsemigroups of the Ideals of Some Transformation Semigroups</i>
11.30 – 11.50	Ondřej Klíma: <i>Hierarchies of piecewise testable languages</i>
12.00 – 12.20	Anna Romanowska: <i>Differential modes and embeddability into semimodules</i>
12.30 – 12.50	Gabriele Ricci: <i>All commutative based algebras have endowed dilatation monoids</i>

**13.00 – 15.00: Lunchbreak**

**15.00 – 17.30: Special lectures in three sections:**

<b>15.00 at S1 03 223</b>	<b>General Algebra</b> Chair: Cirulis
15.00 – 15.20	A. M. Nurakunov: <i>A remark on definable relative principal congruences</i>
15.30 – 15.50	<b>Cancelled</b> (Alexandr Pinus did not arrive)
16.00 – 16.20	Ivan Chajda: <i>Varieties satisfying the triangular scheme need not be congruence distributive</i>
16.30 – 16.50	Egbert Fohry: <i>Coalgebraic products of finite transition systems</i>
17.00 – 17.20	Slavcho Shtrakov: <i>Multi-Solid Varieties</i>

<b>15.00 at S1 03 123</b>	<b>Lattice Theory</b> Chair: Eigenthaler
15.00 – 15.20	Denisa Diaconescu: <i>Tense operators on MV-algebras and Lukasiewicz-Moisil algebras</i>
15.30 – 15.50	Marek Hycko: <i>Properties of subinterval algebras and algebraic constructions</i>
16.00 – 16.20	Ioana Leustean: <i>A determination principle for the algebras of the <math>n</math>-valued Lukasiewicz logic</i>
16.30 – 16.50	Elena Vinceková: <i>How preideals build new structures on generalized effect algebras</i>
17.00 – 17.20	Naeimeh Behbood: <i>Evaluation of bounds of codes defined over hexagonal and honeycomb lattices via linear programming based on association scheme</i>

<b>15.00 at S1 03 23</b>	<b>Classical Algebra</b> Chair: Romanowska
15.00 – 15.20	Codruta Chis: <i>On a class of group automorphisms</i>
15.30 – 15.50	Mihai Chis: <i>Finite groups with the autocommutator subgroup a <math>p</math>-group</i>
16.00 – 16.20	Libor Polák: <i>On literal varieties of homomorphisms onto nilpotent groups</i>
16.30 – 16.50	Jörg Koppitz: <i>Maximal double cosets</i>
17.00 – 17.20	Matthew Nickodemus: <i>Natural Dualities for Finite Groups</i>

**17.30 – 18.00: Coffeebreak**

<b>18.00 at Ernst-Schröder-Saal</b>	<b>Plenary session</b> Chair: Pálffy
<b>Rudolf Wille:</b>	<i>Generalistic Mathematics as Mathematics for the General Public</i>

**19.30: Conference Dinner at the Darmstädter Ratskeller**  
This is beyond the castle in the old townhall at the market place.

## Sunday, November 4<sup>th</sup>

<b>9.00 at Ernst-Schröder-Saal</b>	<b>Plenary session</b> Chair: Haviar
<b>Hilary Priestley:</b>	<i>Completions of algebras in finitely generated lattice-based varieties</i>

**10.00 – 10.30: Coffeebreak**

**10.30 – 12.00: Special lectures in three sections:**

<b>10.30 at S1 03 223</b>	<b>General Algebra</b> Chair: Denecke
10.30 – 10.50	Marcel Erné: <i>Characteristic triangles of closure operators</i>
11.00 – 11.20	Jānis Cīrulis: <i>Implicational extensions of sectional Galois connections</i>
11.30 – 11.50	Josef Slapal: <i>Transformations of closure spaces</i>

<b>10.30 at S1 03 123</b>	<b>Lattice Theory</b> Chair: Aichinger
10.30 – 10.50	Miguel Couceiro: <i>On the partially ordered set induced by the simple minor relation between Boolean functions</i>
11.00 – 11.20	Sergejs Solovjovs: <i>Quantifiers on quantale algebras</i>
11.30 – 11.50	Jan Paseka: <i>The strength of Engeler's lemma reconsidered</i>

<b>10.30 at S1 03 23</b>	<b>Classical Algebra</b> Chair: Wolff
10.30 – 10.50	Smile Markovski: <i>Polynomial functions on the units of <math>\mathbb{Z}_2^n</math></i>
11.00 – 11.20	Todor Zh. Mollov: <i>Isomorphism of modular group algebras of <math>p</math>-mixed abelian groups</i>
11.30 – 11.50	Nako A. Nachev: <i>Unit groups of commutative group rings</i>

<b>12.00</b>	<b>at Ernst-Schröder-Saal: Plenary session</b> Chair: Poeschel
12.00 – 13.00	<b>Farewell session with final discussions and announcements</b>

**13.00: End of the conference**