## AAA89 Conference Programme

Arbeitstagung Allgemeine Algebra - Workshop on General Algebra
February 26 - March 1, 2015, Dresden University of Technology

Since 1971 the AAA Workshop on General Algebra (merged with the "Konferenz Algebra und Grenzgebiete" in 1991 and with the "Konferenz junger Algebraiker" in 1995) has been held semi-annually in Germany, its neighbouring countries and later also in other European countries. This 89th workshop is organized by the Dresden Institute of Algebra.

Special thanks go to Rebekka Balzer, Robert Barham, Ulrike Baumann, Daniel Borchmann, Francois Bossiere, Kathleen Gburek, Johannes Greiner, Tom Hanika, Gudrun Heinisch, Sebastian Liebscher, Marcello Mamino, Antoine Mottet, Antje Noack, Trung Van Pham, Ulrike Püschmann, Sven Reichard, Artem Revenko, Tobias Schlemmer, Stefan Schmidt, Anna Thurm, Christian Zschalig and Jens Zumbrägel for their organizational help.

The organizing committee
Manuel Bodirsky, Bernhard Ganter and Reinhard Pöschel

With Bernhard Ganter's retirement approaching in March, we have decided to organize a special session in honour of him on Saturday afternoon, Erhard Aichinger, Manuel Bodirsky and Reinhard Pöschel

In the final programme all chair persons shall be included. If you are selected as a chair person for some session, we apologize for not asking you in advance and kindly ask you to accept it or to inform the conference office. Thank you very much for your cooperation.

It is gratefully acknowledged that the workshop is financially supported by
Deutsche Forschungsgemeinschaft (DFG)

AAA89: Thursday, February 26
$17^{00}-20^{30} \quad$ Get-together and Registration, conference building Willersbau C207

AAA89: Friday, February 27 (final version, last update: (17:00) February 27, 2015)


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|  | The room C207 can be used for breaks and discussions, too |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Lecture Hall B321 | Lecture Hall A317 | Lecture Hall C129 | Lecture Hall C133 |
| $13^{45}-14^{35}$ | chair: Martin, Barnaby <br> invited lecture <br> Barto, Libor <br> Weighted clones |  |  |  |
| $\begin{aligned} & 14^{45}-15^{00} \\ & 15^{05}-15^{20} \end{aligned}$ | Martin, Barnaby <br> From Complexity to Algebra: New PGPEGP gaps for digraph classes <br> Opršal, Jakub <br> Is cube term a prime Mal'cev condition? | $\qquad$ <br> Jende, Alexander <br> Representation of semigroups using power identity inclusions <br> Steindl, Markus <br> Subpower Membership for Semigroups | $\qquad$ <br> Raievska, Iryna <br> On additive groups of finite local nearrings <br> Raievska, Maryna <br> On multiplicative groups of finite local nearrings | This room may be used for discussions |
|  | coffee break (C207) |  |  |  |
| $16^{05}-16^{20}$ $16^{25}-16^{40}$ | chair: Pech, Christian <br> Liskovets, Valery <br> Multiplicative arithmetic functions in the enumeration of non-isomorphic maps and non-equivalent surface coverings <br> Ziv-Av, Matan <br> Enumeration of S-rings over small groups | chair: Seselja, Branimir <br> Pita Costa, Joao <br> A topos of non-commutative lattices <br> Paseka, Jan <br> Tense operators on distributive lattices | chair: Chajda, Ivan <br> Jakubíková-Studenovská, Danica <br> Convexities of monounary algebras <br> Halušková, Emília <br> Monounary algebras with easy direct limits | This room may be used for discussions |
|  | chair: Mayr, Peter | chair: Revenko, Artem | chair: Schlemmer, Tobias |  |
| $16^{50}-17^{05}$ | Kepczyk, Marek <br> On algebras which are sums of two PI subalgebras | Shcherbacov, Victor <br> On generalizations of Markovski cryptoalgorithm | Márki, László <br> Matrix representations of finitely generated Grassmann algebras | This room may be used for discussions |
| $17^{10}-17^{25}$ | Filipowicz-Chomko, Marzena <br> The structure and properties of selected types of filial algebras. | Shtrakov, Slavcho <br> Separable sets and ODDs in finite functions | Zumbrägel, Jens <br> Notes on Simpleness of Path Algebras over Semirings |  |
| $17^{30}-17^{45}$ | Länger, Helmut <br> States on basic algebras | Aladova, Elena and Plotkin, Tanya On isomorphism of knowledge bases | Lazić, Marijana <br> On terms in 3-supernilpotent groups with an additional unary operation |  |
| $17^{50}-18^{05}$ | Rachunek, Jiri <br> Operators on basic algebras | Plotkin, Eugene <br> Similarity of geometries over algebras | Pavlik, Jan <br> Metrics with Values in Ordered Monoids |  |
| $19^{00}-22 \ldots$ | Conference dinner in the building "Alte Mensa" (Main entrance, Mommsenstrasse 13) |  |  |  |

## AAA89: Saturday, February 28 (final version, last update: (17:00) February 27, 2015)



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| :---: | :---: | :---: | :---: | :---: |
|  | Lecture Hall B321 | Lecture Hall A317 | Lecture Hall C129 | Lecture Hall C133 |
|  | Special session dedicated to Bernhard Ganter (on occasion of his retirement) |  |  |  |
|  | chair: Pöschel, Reinhard |  |  |  |
| $13^{45}-14^{00}$ | Kwuida, Leonard <br> Valuations on finite lattices |  |  |  |
| $14^{05}-14^{20}$ | Rudolph, Sebastian Complexity of Inclusion/Exclusion Constraints in Formal Concept Analysis |  |  |  |
| $14^{25}-14^{35}$ | Pöschel, Reinhard <br> Ganter Mathematicus |  |  |  |
| $14^{45}-18^{00}$ | Excursion to Erlebnisland Mathematik (Mathematics Adventureland)* guided by Bernhard Ganter |  |  |  |
| $15^{15}$ | meeting for excursion at entrance of Erlebnisland Mathematik (see below) |  |  |  |

* There will be a special bus to Mathematics Adventureland (Erlebnisland Mathematik), please mention at registration if you want to participate.
You can reach Erlebnisland Mathematik also by public transport, Bus No. 61 (direction Weißig or Fernsehturm), from bus stop TU (Fritz-Förster-Platz) until bus stop Pohlandplatz (approximately 20 min ), then 3 min walking, see the LINK here, (trams No. 10 and 4 also stop at Pohlandplatz).
Meeting for excursion at the entrance of the building Technische Sammlungen Dresden (where Mathematics Adventureland is located): 15:15 h
address: Erlebnisland Mathematik - Technische Sammlungen Dresden - Junghansstraße 1-3 - 01277 Dresden
some special advices for the evening: link see AAA89 website

AAA89: Sunday, March 1 (final version, last update: (17:00) February 27, 2015)

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| :---: | :---: | :---: | :---: | :---: |
|  | Lecture Hall B321 | Lecture Hall A317 | Lecture Hall C129 | Room C207 |
|  | chair: Masulovic, Dragan | chair: Cirulis, Janis | chair: ???, ??? |  |
| $9^{10}-9^{25}$ | Mayr, Peter <br> Making congruences into algebras | Skokov, Dmitry <br> Lower-modular elements of lattices of epi <br> group varieties | - | Poster session (C207): |
| $9^{30}-9^{45}$ | Zhuk, Dmitriy <br> On key relations with full pattern | Schlemmer, Tobias <br> Representing group extensions as binary re lation orbifolds | - | A. Sultanov, E. Aladova, O. Monakhova <br> Linear algebras with special group of auto morphisms |
| $9^{50}-10^{05}$ | Aichinger, Erhard <br> Finitely generated clones of congruence pre <br> serving functions | Tepavcevic, Andreja <br> Join-between planar lattices and slim lat <br> tices | - |  |
| $10^{10}-10^{25}$ | Behrisch, Mike <br> On the cardinality of the lattice of C-clones | Seselja, Branimir Omega-lattice | - |  |
|  |  | coffee break | (C207) |  |
| $11^{05}-11^{55}$ | invited lecture $\quad$ chair: Truss, John <br> Pech, Maja <br> Universal homogeneous morphisms <br> and their applications |  |  |  |
| $11^{55}-12^{00}$ | closing |  |  |  |

