# AAA99 – Schedule of Lectures

## Friday, February 21st, 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.

(Early registration: Thursday 20th 17:00 - 20:00 **Lecture Hall 101**)

| 08:00 - 09:00 | Registration | | |
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| 09:00 - 09:30 | Opening: **Lecture Hall 101** | | |
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| | **Lecture Hall 101** <br><br> Chair: Paolo Aglianò | | |
|---|---|---|---|
| 9:30 - 10:30 | **Mai Gehrke** <br><br> Sheaves on spectral spaces and the patch monad | | |

| 10:30 - 11:00 | Coffee break | | |
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| | **Lecture Hall 101** <br><br> Chair: Ivan Chajda | **Lecture Hall 103** <br><br> Chair: Erkko Lehtonen | **Lecture Hall 149** <br><br> Chair: Caterina Viola |
|---|---|---|---|
| 11:00 - 11:30 | **Wesley Fussner** <br><br> A new perspective on duality for MV-algebras | **Mike Behrisch** <br><br> On the Burris-Willard conjecture | **Philipp Nuspl** <br><br> Solving systems of equations of fixed size over finite groups |
| 11:30 - 12:00 | **Diego Valota** <br><br> A description of finite commutative idempotent involutive residuated lattices | **Sebastian Kreinecker** <br><br> The lattice of monomial clones on finite fields | **Kevin Berg** <br><br> The complexity of homomorphism factorization |
| 12:00 - 12:30 | **Jakub Rydval** <br><br> Description logics with concrete domains and general concept inclusions revisited | **Florian Aichinger** <br><br> Chains of clonoids and word orderings | **Archil Kipiani** <br><br> Cardinalities of automorphism groups of partial mono-unary algebras |
| 12:30 - 13:00 | **Marco Abbadini** <br><br> Priestley duality above dimension zero: algebraic axiomatisability of the dual of compact ordered spaces | **Reinhard Pöschel** <br><br> The structure of the maximal congruence lattices of algebras on a finite set | **Zbyněk Kurač** <br><br> Transfer-stable means on finite chains |

| 13:00 - 15:00 | Lunch | | |
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# AAA99 – Schedule of Lectures

## Friday, February 21st, Afternoon

| | **Lecture Hall 101** Chair: Kevin Berg | | |
|---|---|---|---|
| 15:00 - 16:00 | **Pawel Idziak** Circuit satisfiability and solving equations | | |

| 16:00 - 16:30 | Coffee break |
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| | **Lecture Hall 101** Chair: Zarathustra Brady | **Lecture Hall 103** Chair: Wesley Fussner | **Lecture Hall 149** Chair: Vyacheslav Yu. Shaprynskii |
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| 16:30 - 17:00 | **Libor Barto** Reconstructing subproducts from projections | **Milan Petrík** Dominance relation on Triangular Norms | **Premysl Jedlicka** Distributive biracks and solutions of Yang-Baxter equation |
| 17:00 - 17:30 | **Michael Kompatscher** Failure of local-to-global | **Venkata Krishna Kanduru** On the atomicity of the algebra of conditional logic | **Kritsada Sangkhanan** A partial order on transformation semigroups with restricted range that preserve double direction equivalence |
| 17:30 - 18:00 | **Florian Starke** Classification of cyclic height 1 conditions | **Salvatore Scamperti** Logic with atoms and undecidability of definable homomorphism problem for definable graphs | **Teerapong Suksumran** Parametrization of generalized Heisenberg groups: The skew-symmetric case |

# AAA99 – Schedule of Lectures

## Saturday, February 22nd, Morning

|  | **Lecture Hall 101** <br> Chair: Reinhard Pöschel |  |  |
|---|---|---|---|
| 9:00 - 10:00 | **Dmitriy Zhuk** <br> Why CSP is easy |  |  |

| 10:00 - 10:30 | Coffee break |
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|  | **Lecture Hall 101** <br> Chair: Libor Barto | **Lecture Hall 103** <br> Chair: Diego Valota | **Lecture Hall 149** <br> Chair: Marco Bonatto |
|---|---|---|---|
| 10:30 - 11:00 | **Zarathustra Brady** <br> Minimal-Taylor algebras | **Anatolii Zhuchok** <br> On free rs-g-dimonoids | **Dmitry Skokov** <br> Special elements of the lattice of epigroup varieties |
| 11:00 - 11:30 | **Kristina Asimi** <br> Infinity: Relevant or Irrelevant? | **Vyacheslav Yu. Shaprynskii** <br> Cancellable elements of lattices of semigroup varieties | **Samir Zahirović** <br> The power graphs of finite and some torsion-free groups |
| 11:30 - 12:00 | **Caterina Viola** <br> Applying Farkas' lemma to infinite-domain valued CSPs | **László Márki** <br> Morita equivalence of semigroups | **Branimir Seselja** <br> Subnormal subgroups in the framework of weak congruence lattices of groups |

| 12:00 - 14:00 | Lunch |
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| 14:00 - 15:30 | Short tour of Siena |
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# AAA99 – Schedule of Lectures

## Saturday, February 22nd, Afternoon

|  | **Lecture Hall 101**<br>Chair: Michael Kompatscher |  |  |
|---|---|---|---|
| 15:30 - 16:30 | **Andrea Lucchini**<br><br>The Tarski irredundant basis theorem and the generation of finite groups |  |  |

| 16:30 - 17:00 | Coffee break |
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|  | **Lecture Hall 101**<br>Chair: Nebojša Mudrinski | **Lecture Hall 103**<br>Chair: Florian Starke | **Lecture Hall 149**<br>Chair: Jan Paseka |
|---|---|---|---|
| 17:00 - 17:30 | **Erhard Aichinger**<br><br>The degree of a function between two abelian groups | **Delbrin Ahmed**<br><br>Some large numbers of subuniverses of lattices | **Agnieszka Stocka**<br><br>Sets of prime power order generators of finite groups |
| 17:30 - 18:00 | **Jakob Moosbauer**<br><br>Chevalley Warning type results on abelian groups | **Bertalan Bodor**<br><br>Chasing model-complete cores | **Miguel Andrés Marcos**<br><br>Twist-products and Nelson-type algebras |
| 18:00 - 18:30 | **Lydia Lichtenberger**<br><br>Generating congruence preserving functions of finite groups | **Endre Tóth**<br><br>On centralizers of finite (semi)lattices, and a simpler way to the centralizers on $\{0,1\}$ | **Claudia Muresan**<br><br>Obtaining axiomatizations for varieties generated by antiortholattices with the strong De Morgan property |

| 20:30 | Social dinner |
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# AAA99 – Schedule of Lectures

## Sunday, February 23rd, Morning

|  | **Lecture Hall 101**<br>Chair: Erhard Aichinger | **Lecture Hall 103**<br>Chair: Marco Abbadini | **Lecture Hall 149**<br>Chair: Dmitry Skokov |
|---|---|---|---|
| 09:00 - 09:30 | **Nebojša Mudrinski**<br><br>Commutator sequences | **Jan Paseka**<br><br>Categories of orthogonality spaces | **Barbora Batíková**<br><br>Semirings of 0,1-preserving endomorphisms of semilattices |
| 09:30 - 10:00 | **Marco Bonatto**<br><br>Commutator theory for skew braces | **Ivan Chajda**<br><br>Varieties corresponding to classes of complemented posets | **Małgorzata Hryniewicka**<br><br>Nondistributive rings |
| 10:00 - 10:30 | **Erkko Lehtonen**<br><br>Associative spectra of graph algebras | **Kadir Emir**<br><br>Strict quantum 2-groups vs simplicial objects | **Karol Pryszczepko**<br><br>Fully filial rings |

| 10:30 - 11:00 | Coffee break |
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|  | **Lecture Hall 101**<br>Chair: Mike Behrisch |  |  |
|---|---|---|---|
| 11:00 - 12:00 | **Petar Markovic**<br><br>On some recent approaches to solving Frankl's union-closed sets conjecture |  |  |

| 12:00 - 12:30 | Closing: **Lecture Hall 101** |
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