# International Conference on Order, Algebra, and Logics in conjunction with the 22nd annual Shanks Lectures 

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Order and algebra in natural logic
Daniele Mundici.
The Haar theorem for finitely presented MV-algebras and unital l-groups
Friedrich Wehrung.
From lifting objects to lifting diagrams with respect to a given functor
Ross Willard.
Four unsolved problems in congruence permutable varieties

## Abstracts of Invited Tutorials

George McNulty.
Equations and algebras: a tutorial on algorithmic problems
Hiroakira Ono.
Interplay between algebra and logic
Agnes Szendrei.
Commutator theory
Yde Venema.
Modal logic and universal algebra

## Contributed Papers

Michael Adams and W. Dziobiak (Plenary).
A Minimal \$Q\$-universal variety of Heyting algebras
Kira Adaricheva and Marcel Wild.
Realization of abstract convex geometries by point configurations

Stefano Aguzzoli and Vincenzo Marra.
Finitely presented MV-algebras with finite automorphism group
Jeremy Alm, Roger Maddux and Jacob Manske.
On a special case of the flexible atom conjecture
Sergei Babyonyshev.
Syntactical derivation of protoalgebraicity condition
Richard Ball, Jaroslav Nesetril and Ales Pultr (Plenary).
Dualities in Full Homomorphisms
Libor Barto.
Set functors determined by values on objects
Guram Bezhanishvili and Patrick J. Morandi.
Priestley Order-Compactifications
Robert Bignall and Matthew Spinks.
On binary discriminator varieties I, II, and III
Felix Bou, Angel García-Cerdaña and Ventura Verdú.
There are no Tarski-style axiomatizations for most fuzzy logics
Manuela Busaniche and Leonardo Manuel Cabrer.
Study of canonical extensions of BL-algebras
Leonardo Manuel Cabrer and Sergio Arturo Celani.
Logics with Fusion and Implication
Carlos Caleiro and Ricardo Gonçalves.
Behavioral algebraization
Jose Luis Castiglioni, Matias Menni and Marta Sagastume.
Compatible functions on commutative residuated lattices
Ivan Chajda.
Many-valued quantum algebras
Key One Chung and Jonathan Smith.
Homomorphisms for topological coalgebras
Petr Cintula, Francesc Esteva, Joan Gispert, Lluis Godo, Franco Montagna and Carles Noguera. Algebraic characterization of completeness properties for core fuzzy logics I: propositional logics

Petr Cintula, Francesc Esteva, Joan Gispert, Lluis Godo, Franco Montagna and Carles Noguera. Algebraic characterization of completeness properties for core fuzzy logics II: predicate logics

Lavinia Ciungu.
Existence of states on fuzzy structures
Janusz M. Czelakowski.
Commutator Equations, Day Implication and the Commutator
Michael Darnel.
Superspecial-valued Lattice-ordered Groups
Brian A. Davey and Rashed Talukder.
Natural Dualities for Generalized Modal Algebras
Klaus Denecke.
Semigroup Properties of Operations and Cooperations defined on Finite Sets
Antonio di Nola, Peter Belluce and Brunella Gerla.
Localization in Abelian I-groups with strong unit, via MV-algebras

Antonio di Nola and Mirko Navara.
Cantor-Bernstein property
Dwight Duffus and Tomasz Luczak (Plenary).
Automorphisms and Endomorphisms of Ordered Sets
Ivo Düntsch and Michael Winter.
Mereotopology and Boolean contact algebras
Anatolij Dvurecenskij and Charles Holland.
On Perfect GMV-algebras and Covers of MV-algebras
Aldo Victorio Figallo, Paolo Landini and Alicia Nora Ziliani.
A subvariety of Ockham - Nelson algebras
Aldo Victorio Figallo and Claudia Andrea Sanza.
Advances in monadic \$mbox\{oldmath\{\$n imes m-\$\}\}\$valued \{L\}ukasiewicz algebras with negation
Ralph Freese and Matt Valeriote.
Properties defined by Maltsev conditions
Hector Freytes, Antonio Ledda and Matthew Spinks.
A discriminator variety of linear Heyting algebras with operators arising in quantum computation
Nataliya Galanova.
To the gap theory of ordered fields
Joan Gispert and Antoni Torrens.
Boolean skeleton and Pierce representation of Bounded BCK-algebras.
Roberto Giuntini, Francesco Paoli, Antonio Ledda and Hector Freytes. Two aspects of the theory of quasi-MV algebras

Martin Goldstern and Saharon Shelah (Plenary).
Is the clone lattice on uncountable cardinals dually atomic?
Tomasz Gorazd and Jacek Krzaczkowski.
Complexity of term equation problem
Revaz Grigolia.
Monadic BL-algebras
Radomir Halas, Ivan Chajda and Ivo Rosenberg.
Primal and functionally complete algebras of logic
John Harding (Plenary).
Completions and a variety of Heyting algebras
Miroslav Haviar and Hilary A. Priestley (Plenary).
Canonical extensions of Stone algebras: the natural way
Eduardo Hirsh and Renato Lewin.
Algebraization of logics defined by literal-paraconsistent or literal-paracomplete matrices
Rostislav Horcik.
Totally ordered monoids which are epimorphic images of sub-l-monoids of totally ordered groups
Sándor Jenei.
Geometric description of residuated semigroups
Peter Jipsen.
Representability of small relation algebras and involutive FL-algebras
Keith Kearnes, Jason Shaw and Agnes Szendrei.
Clones of 2-step Nilpotent Groups
Keith A. Kearnes and Agnes Szendrei.

## CLONES OF ALGEBRAS WITH PARALLELOGRAM TERMS

Vilas Kharat and Khalid Mokbel.
SEMIPRIME IDEALS AND SEPARATION
Tomasz Kowalski.
Failure of amalgamation in Hilbert lattices
Marcin Kozik (Plenary).
A finite algebra with an EXPTIME complete clone membership problem
Aleksandr Kravchenko.
The lattice of quasivarieties of differential groupoids
Jan Kühr.
Representable integral residuated lattices and their subreducts
Roger Maddux.
Relevance logic and the calculus of relations
Enrico Marchioni.
On Decidability and Complexity of Semilinear Varieties
Jorge Martinez.
Frobenius Identities in Frames
Peter Mayr.
Polynomial clones on squarefree cyclic groups
Alexei Muravitsky.
An investigation of the lattice ExtS4
James Nation and Kira Adaricheva.
Lattices of quasivarieties as congruence lattices of semilattices with operators
Jeffrey Olson and James Raftery.
Positive Sugihara Monoids
Alessandra Palmigiano and Riccardo Re (Plenary).
Topological relational quantales
Jan Paseka.
Projective Biframes: A General View
Michael Pinsker, Manuel Bodirsky and Hubie Chen.
The reducts of $(\mathrm{N},=)$
Norbert Preining.
Quantified Propositional Gödel Logics - A Survey
Bob Quackenbush.
Completing distributive lattice expansions
Jiri Rachunek and Filip Svrcek.
Monadic bounded commutative residuated \$ell \$-monoids
James Raftery (Plenary).
The equational definability of truth predicates
C. Russo.

An order-theoretic approach to image processing
Antonino Salibra (Plenary).
Algebra and topology in lambda calculus
Luigi Santocanale.
Derived Semidistributive Lattices

## Steve Seif.

Word digraphs and the free spectra of finite monoids

## Marina Semenova.

Sublattices of subsemigroup lattices. A survey
John Snow.
Primitive positive clones of groupoids
Sergejs Solovjovs.
A representation theorem for quantale algebras
David Stanovsky.
Embedding algebras into semimodules

## Anna Stronska.

Nilpotent subsemigroups of the semigroup of order-decreasing transformations of the set of all the subsets of a finite set

Bruno Teheux.
Algebraic aspects of some modal $n+1$-valued Lukasiewicz logics
Jacob Vosmaer.
Connecting the profinite completion and the canonical extension using duality
Piotr Wojciechowski.
PMV-algebras of matrices
Xiuhua Wu and Qingguo Li.
The representation of continuous lattices and a new Cartesian closed category
Junwei Yu.
Negation from the perspective of neighborhood semantics
Laszlo Zadori.
Solvability of systems of polynomial equations over finite algebras
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