

# Applications of Algebra XIII

Zakopane

March 2009

## MONDAY, MARCH 9TH

from 14:00 Registration — hotel ‘Start’

## TUESDAY, MARCH 10TH

### Morning session

Chair: Joanna Grygiel

9.50 Opening

10.00 Vlastimil Dlab

*Graphs: Coxeter, Kronecker, Fibonacci*

10.45 Coffee break

11.15 Piroska Lakatos

*Famous algebraic integers and graphs*

12.00 Piotr Wojtylak

*Necklace graphs*

### Afternoon session

Chair: Janusz Czelakowski

15.00 Rafał Gruszczyński, Andrzej Pietruszczak

*On Grzegorzczyk’s pointless topology. Atomic structures*

15.45 Tomasz Połacik

*Bisimulation for first order Kripke models*

16.30 Coffee break

17.00 Krystyna Mruczek-Nasieniewska

*P-compatible Modular Orthologics*

17.30 Adam Kolany

*Reversed Resolution in Reducing Generalized Satisfiability to (3,2)-SAT*

## WEDNESDAY, MARCH 11TH

### Morning session

Chair: Piotr Wojtylak

- 10.00 Sándor Radeleczki  
*Related lattices of majority algebras (part 1)*
- 10.45 Janusz Czelakowski  
*The Axiom of Dependent Choices and its Generalizations*
- 11.15 Coffee break
- 11.45 Zofia Kostrzycka  
*On a finitely axiomatizable Kripke incomplete logic containing KTB*
- 12.15 Katarzyna Grygiel, Marek Zaionc  
*Random lambda terms: their syntax and semantics*

### Afternoon session

Chair: Sándor Radeleczki

- 15.00 Sergejs Solovjovs  
*Limits and colimits of variable-basis topological systems*
- 15.30 Peteris Daugulis  
*Algebra automorphism orbits for the tame representation type*
- 16.00 Coffee break
- 16.30 Jānis Cīrulis  
*Subtraction-like operations in nearsemilattices*
- 17.15 Bogdan Staruch, Bożena Staruch  
*Different kinds of subalgebras of partial algebras form Scott information system*

**20.00 Conference dinner**

**THURSDAY, MARCH 12TH**

**Morning: Trip to Kasprowy Wierch**



**Afternoon session**

Chair: Marek Zaionc

16.00 Priscana Glubudom

*Green's Relations on Hypersubstitution monoid*

16.30 Mirko Navara

*Colouring of graphs and problems of quantum mechanics*

17.15 Coffee break

17.45 Sándor Radeleczki

*Related lattices of majority algebras (part 2)*

**FRIDAY, MARCH 13TH**

**Morning session (in Polish)**

Chair: Jerzy Pogonowski

10.00 Oleg Tikhonenko

*Processor sharing queueing system*

10.30 Iwona Tyrła  
*The Hyers-Ulam stability of Wilson type functional equation*

11.00 Coffee break

11.30 Ryszard Miszczyński  
*Conclusions for logic drawn from the classical definition of truth. Analyses of Leśniewski's early writings*

12.00 Kazimierz Czarnota  
*Formal Ontology — Here and Now*

12.30 Robert Sochacki  
*Rejected axioms for the  $k + 1$ -valued implicational invariant calculi of Łukasiewicz*

### **Afternoon session**

Chair: Edouard Wagneur

15.00 Oleg Demidenko  
*Complex of experiments organization with adaptation to computing process*

15.30 Prapa Vattanakeeree  
*Departmental Research in Computer Ethics Course, Science Department, Chiang Mai University*

16.00 Coffee break

16.30 Jurij Povstenko  
*The distinguishing features of solutions to the diffusion-wave equation*

## **SATURDAY, MARCH 14TH**

### **Morning session**

Chair: Mirko Navara

10.00 Wojciech Dzik  
*Slices and unification types in intermediate logics*

10.30 Lidia Stępień, Marcin Stępień  
*A construction of infinite set of rational self-equivalences*

11.00 Coffee break

11.30 Edouard Wagneur  
*On the solutions to tropical linear systems of inequalities*

12.15 Jerzy Pogonowski, Andrzej Wiśniewski  
*Incompleteness of Effective Double Frames*