

Duality Theory in Algebra, Logic and Computer Science

Workshop II – 15-17 August 2012

SCHEDULE

Talks will take place in Lecture Room 3 in the Mathematical Institute.

<u>WEDNESDAY</u>		
From 08:30	Registration	
09:25-09:30	Welcome	
09:30-10:20	<i>George Metcalfe</i>	Admissibility in finite algebras
10:20-10:40	- Coffee Break -	
10:40-11:30	<i>Revaz Grigolia</i>	On the logic of perfect MV-algebras: projectivity, unification, structurally completeness
11:30-12:20	<i>Leonardo M. Cabrer</i>	Applications of duality on unification type classification
12:20-14:00	- Lunch Break -	
14:00-14:50	<i>Yoshihiro Maruyama</i>	Fibred universal algebra: many-valued duality models of predicate logics
14:50-15:40	<i>Andrea Pedrini</i>	Mundici's gamma-functor theorem for star-shaped sets via Minkowski's duality with gauge functions
15:40-16:00	- Coffee Break -	
16:00-16:50	<i>Andreas Döring</i>	Generalised Gelfand spectra for noncommutative operator algebras and multi-valued logic for quantum systems
16:50-17:40	<i>Mai Gehrke</i>	Sheaf representations of MV-algebras via Priestley duality

<u>THURSDAY</u>		
09:30-10:20	<i>Dirk Hofmann</i>	Some remarks on the metric Vietoris monad
10:20-10:40	- Coffee Break -	
10:40-11:30	<i>M. Jamie Gabbay</i>	Stone duality for first-order logic: a nominal approach to logic and topology
11:30-12:20	<i>Dion Coumans</i>	The construction of free algebras via a functor on partial algebras
12:20-14:00	- Lunch Break -	
14:00-14:50	<i>Ramon Jansana</i>	Topological duality for N4-lattices and N4-lattices with modal operators
14:50-15:40	<i>Daniela Petrişan</i>	The many-valued coalgebraic cover modality
15:40-16:00	- Coffee Break -	
16:00-16:50	<i>Lian-Ting Chen</i>	Concrete coalgebraic modal logic
16:50-17:40	<i>Vincenzo Marra</i>	Adjunctions induced by the congruence lattices of the free algebras in a variety

<u>FRIDAY</u>		
09:30-10:20	<i>Sam van Gool</i>	A non-commutative Priestley duality
10:20-10:40	- Coffee Break -	
10:40-11:30	<i>Karin Cvetko Vah</i>	The structure of skew distributive lattices
11:30-12:20	<i>Sebastian Kerhoff</i>	A general duality theory for clones
12:20-14:00	- Lunch Break -	
14:00-14:50	<i>Alessandra Palmigiano</i>	Sahlqvist correspondence for intuitionistic modal mu-calculus
14:50-15:40	<i>María E. Garcia</i>	Spectral-like and Priestley-style duality for distributive Hilbert algebras with infimum
15:40-16:00	- Coffee Break -	
16:00-16:50	<i>Samson Abramsky</i>	A coalgebraic approach to equilibria in infinite extensive games

Social Events:

Tuesday: 17:30-19:30 Welcome Drinks – Mathematical Institute Common Room

Friday: 19:00-21:00 Informal reception, with drinks and refreshments – at Hilary's house (details to be provided later)