

**LINZ**  
**2017**

37th Linz Seminar on Fuzzy Set Theory

**Enriched Category Theory  
and Related Topics**

Bildungszentrum St. Magdalena, Linz, Austria  
February 7 - 10, 2017

## Program

### Tuesday, February 7, 2017

- 09:00 am OPENING
- 09:15 am M. GEHRKE: *Recognition, logic and codensity monads*
- 10:30 am COFFEE BREAK
- 11:00 am M. ERNÉ, J. PICADO: *Tensor products and relation quantales*
- 11:45 am D. HOFMANN, I. STUBBE: *Topology from enrichment: the curious case of partial metrics*
- 12:30 pm LUNCH
- 02:00 pm W. LI, D. ZHANG: *Continuous metric spaces and injective approach spaces*
- 02:45 pm M. STEHLÍK: *Statistical metrics for statistical learning*
- 03:30 pm COFFEE BREAK
- 04:00 pm P. EKLUND, U. HÖHLE, J. KORTELAJNEN: *Applications of modules on unital quantales*
- 04:45 pm ROUND TABLE

### Wednesday, February 8, 2017

- 09:15 am D. HOFMANN: *Enriched perspectives on duality theory*
- 10:30 am COFFEE BREAK
- 11:00 am H. LAI, L. SHEN: *Fixed points of adjoint  $Q$ -functors and their applications*
- 11:30 am H. LAI, L. SHEN: *Regularity vs. constructive complete (co)distributivity*
- 12:00 pm J. PASEKA, R. ŠLESINGER: *A representation theorem for  $Q$ -sup-algebras*
- 12:30 pm LUNCH
- 02:00 pm J. GUTIÉRREZ GARCÍA, U. HÖHLE: *What are dual  $Q$ -preordered sets?*
- 02:45 pm P. EKLUND, J. GUTIÉRREZ GARCÍA, U. HÖHLE, JARI KORTELAJNEN: *Non-commutativity and many-valuedness: The topological representation of the spectrum of  $C^*$ -algebras*
- 03:30 pm COFFEE BREAK
- 04:00 pm J. GUTIÉRREZ GARCÍA, U. HÖHLE, T. KUBIAK: *Tensor products of complete lattices in many-valued topology*
- 04:45 pm ROUND TABLE

## Thursday, February 9, 2017

- 09:15 am D. ZHANG: *The role of fuzzy logic in fuzzy order and fuzzy topology*
- 10:30 am COFFEE BREAK
- 11:00 am J. T. DENNISTON, A. MELTON, S. E. RODABAUGH: *Enriched topology and asymmetry*
- 11:45 am M. WINTER: *Type- $n$  arrow categories*
- 12:30 pm LUNCH
- 02:00 pm EXCURSION

## Friday, February 10, 2017

- 09:15 am P. RESENDE: *Groupoid quantales*
- 10:30 am COFFEE BREAK
- 11:00 am J. P. QUIJANO: *Sheaves on coverable groupoids*
- 11:30 am A. ŠOSTAK:  *$L^M$ -valued equalities,  $L^M$ -rough approximation operators and LM-fuzzy ditopologies*
- 12:00 am T. FLAMINIO, L. GODO, S. UGOLINI: *States of free product algebras and their integral representation*
- 12:30 pm LUNCH
- 02:00 pm Y. YUE, J. FANG: *Characterizations of topological quantaloid-enriched convergence spaces*
- 02:30 pm J. FANG, Y. YUE: *T-Q-filters and their applications*
- 03:00 pm COFFEE BREAK
- 03:30 pm M. DEMIRCI: *Applications of fundamental categorical duality theorem to L-fuzzy sets and separated M-valued sets*
- 04:00 pm W. LOWEN, J. RAMOS GONZÁLEZ, B. SHOIKHET: *On the tensor product of Grothendieck  $k$ -linear categories*
- 04:30 pm CLOSING