

# 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 Chairs

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#### CALL FOR PAPERS

Since their inception in 1979 the Linz Seminars on Fuzzy Set Theory have emphasized the development of mathematical aspects of fuzzy sets by bringing together researchers in fuzzy sets and established mathematicians whose work outside the fuzzy setting can provide direction for further research. The philosophy of the seminar has always been to keep it deliberately small and intimate so that informal critical discussions remain central.

LINZ 2017 will be the 37th seminar carrying on this tradition and is devoted to the theme "[Enriched Category Theory and Related Topics](#)". The goal of the seminar is to present and to discuss recent advances in enriched category theory and its various applications in pure and applied mathematics.

Accordingly, the topics of the Seminar will include but are not limited to:

- Enriched category theory
- Monoidal closed and biclosed categories
- Quantales and related topics in
  - Quantaloid enriched categories
  - Quantaloid enriched presheaves
  - Noncommutative sheaf theory
  - Quantale sets
  - Partial metrics
- and applications to
  - Fuzzy logics, particularly noncommutative ones
  - Fuzzy preorders
  - Topological structures on Q-categories
  - Theoretical Computer Science

The following invited speakers (in alphabetic order) have already confirmed their participation:

- **Mai Gehrke**, Université Paris Diderot – Paris 7, Paris (France)
- **Dirk Hofmann**, Universidade de Aveiro, Aveiro (Portugal)
- **Pedro Resende**, Instituto Superior Técnico, Lisbon (Portugal)
- **Dexue Zhang**, Sichuan University, Chengdu (China)

The "Linz" tradition has these key features: the number of participants of the Seminars is usually bounded from above by forty with broad international representation and a mix of pure and applied interests; there are no parallel sessions so that all participants focus on each presentation and fully engage in each topic; and there is ample time for discussion of each presentation, with follow-up round tables for discussion of open problems and issues raised in the talks. In particular, young researchers (PhD students, junior post-docs) are encouraged to submit their latest results.

**Please submit your extended abstract (1–4 pages) until Nov 06, 2016.**  
**Further Information:** <http://www.flll.jku.at/linzseminars>