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IFSA Mathematics Chapter

**Bundesministerium
für Wissenschaft und Forschung, Wien**

Linzer Hochschulfonds

**Institut für Mathematik,
Johannes Kepler Universität Linz**

The whole Seminar takes place at the

**Bildungshaus St. Magdalena
Schatzweg 177, A-4040 LINZ, Austria
Phone (0732) 25 30 41 - 0**

Meals:

Breakfast: 8:00 a.m., Lunch: 1:00 p.m.

Exchange of foreign currency:

Monday, September 12, 1988, 1:30 - 3:00 p.m.

SOCIAL PROGRAM

Monday, September 12, 1988

7:00 p.m. "Mostbauer"

Wednesday, September 14, 1988

2:00 p.m. Excursion:

Former Concentration Camp in Mauthausen
Monastery St. Florian

Dinner: Restaurant "Freiseder"

Special suggestion:

Sunday, September 11, 1988

8:00 p.m. "Linzer Klangwolke"
(within the "Brucknerfest '88")

MEASURES AND INTEGRALS

ALTERNATIVE CONCEPTS

Tenth International Seminar on Fuzzy Set Theory

**Bildungshaus St. Magdalena
Linz, Austria**

September 12 - 16, 1988

SCIENTIFIC PROGRAM

All sessions are held in Seminarraum 3

Morning Session	9:00 a.m. - 12:30 p.m.
Coffee Break	10:30 a.m. - 11:00 a.m.
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Afternoon Session	2:30 p.m. - 6:00 p.m.
Coffee Break	4:00 a.m. - 4:30 p.m.

Monday, September 12, 1988

- 9:00 a.m. OPENING SESSION
- 9:30 a.m. Jean-Yves JAFFRAY (Paris)
"Uncertainty as imprecise risk"
- 11:00 a.m. Alain CHATEAUNEUF (Paris)
"Decomposable measures, distorted probabilities and concave capacities"
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- 2:30 p.m. Siegfried WEBER (Mainz)
"Decomposable measures for conditional objects"
- 4:30 p.m. Peter WAKKER (Nijmegen)
"Fuzzy sets and belief functions as special forms of nonadditive probabilities"
- 5:30 p.m. PROBLEMS, REMARKS

Tuesday, September 13, 1988

- 9:00 a.m. Henri PRADE (Toulouse)
"Evaluation of fuzzy sets and fuzzy integrations: A synthetic discussion"
(joint paper with D. Dubois)
- 10:00 a.m. PROBLEMS, REMARKS
- 11:00 a.m. Maciej WYGRALAK (Poznan)
"Fuzzy sets - their powers and cardinal numbers. An introduction to a general theory"
- 12:00 a.m. PROBLEMS, REMARKS
- *
- 2:30 p.m. ROUND TABLE *"Quantitative measures"*
(Different concepts, the role of additivity, applications,...)
- 4:30 p.m. ROUND TABLE *"Qualitative measures"*
(Axiomatics and constructions, compatibility with and representation by quantitative measures,...)

Wednesday, September 14, 1988

- 9:00 a.m. Aldo VENTRE (Napoli)
"A Yosida-Hewitt like theorem for \perp -decomposable measures"
(joint paper with M. Squillante)
- 9:45 a.m. Massimo SQUILLANTE (Napoli)
" \perp -decomposable measures and integrals: Convergence and absolute continuity"
(joint paper with L. D'Apuzzo and R. Sarno)
- 11:00 a.m. Erich Peter KLEMENT (Linz)
"A law of large numbers for fuzzy random variables"
- 12:00 a.m. PROBLEMS, REMARKS

Thursday, September 15, 1988

- 9:00 a.m. Ulrich HÖHLE (Wuppertal)
"Non-classical models of probability theory"
- 10:00 a.m. PROBLEMS, REMARKS
- 11:00 a.m. ROUND TABLE *"Foundations"*
(Categorical aspects, realizations, domains and ranges of measures,...)
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- 2:30 p.m. ROUND TABLE *"Integration"*
(Different concepts, representation of measures, applications,...)
- 4:30 p.m. SPECIAL DISCUSSION
"Mathematics versus fuzzy sets?"

Friday, September 16, 1988

- 9:00 a.m. Bernadette BOUCHON (Paris)
"Entropic models: A framework for measuring both uncertainty and inaccuracy"
- 9:45 a.m. Nand AGGARWAL (Besançon)
"Conditional entropy, clustering and computer-aided group technology"
- 11:00 a.m. ROUND TABLE *"Information"*
(Different concepts, connection with other measures of uncertainty, applications,...)
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- 2:30 p.m. PROBLEMS, REMARKS
- 3:30 p.m. CLOSING SESSION