



BELGISCH WISKUNDIG GENOOTSCHAP

SOCIETE MATHEMATIQUE DE BELGIQUE

Comité National de Mathématique      CNM

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NCW      Nationaal Comité voor Wiskunde

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**BMS-NCM NEWS: the newsletter of the  
Belgian Mathematical Society and the  
National Committee for Mathematics**

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**BMS-NCM NEWS**

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**WOG/SRN Symposium: First Announcement**

**New Trends in Mathematical Modeling and Numerical Methods**

**November 16-17, 2000**

**Leuven, Belgium**

Organised by the Scientific Research Network **Advanced Numerical Methods for Mathematical Modelling** financed by the FWO, Fund for Scientific Research (Flanders).

The aim of this 2-day symposium is to give an overview of important new trends in mathematical modeling and numerical methods in the following areas:

- nonlinear dynamical systems
- stochastic differential equations and applications in finance
- computational biology and bio-informatics
- computational fluid dynamics for blood flows
- automatic differentiation



## News from the U. Lg

### Institut de Mathématique - Functional Analysis Center

The Center is very happy to invite you to the following three talks that will take place on **September 25, 2000**, in the class room 0/39 of the Institut de Mathématique de l'Université de Liège:

14.30: **Professor Susanne DIEROLF** Universität Trier (Allemagne) *Morphisms in the category of locally convex operator spaces*

15.30: **Professor Klaus Dieter BIERSTEDT** Universität Paderborn (Allemagne) *Operator representation for spaces of vector-valued holomorphic functions*

16.30: Coffee

17.00: **Professor José BONET** Universidad Politecnica Valencia (Espagne) *Rearrangements of convergent series*

The talks of Professors S. Dierolf et K. D. Bierstedt are organized with the help of the FNRS. The talk of Professor J. Bonet is organized under the auspices of the Société Royale des Sciences de Liège.

Welcome to all interested,

J. Schmets

## News from the V. U. B.

Prof. **Lars Kadison** (Chalmers University, Goteborg) will visit the VUB from September 21 until October 5. On September 27, at 3.00 pm he will deliver a lecture entitled

*Hopf algebra action of centralizers on separable extensions*

location: VUB, room 6G307C. Coffee will be available.

**Abstract:** W. Szymanski put out a preprint in 1992 showing that a finite index ( $II_1$ ) irreducible subfactor of depth two has a Jones tower with relative commutants possessing Hopf algebra structure: the tower itself is built up by successive crossed (or smash) products with these. It was proposed privately at this time by Cuntz, Montgomery and others that the analytic proof was really algebraic in nature. Nikshych and I can now give an algebraic proof starting with split separable Frobenius extension of algebras over a field with trivial centralizer and a depth two condition. We have also found ways to avoid trace and the tunnel construction in the proofs. By recalling Hopf-Galois extensions, we formulate all this as a non-commutative analogue of the Steinitz theorem that a finite degree field extension is Galois iff it is separable and normal.

academic homepage:

<http://www.math.ntnu.no/~kadison>