



Belgian Mathematical Society

Comité National de Mathématique CNM

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NCW Nationaal Comité voor Wiskunde

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

Campus Plaine c.p. 218/01,
Bld du Triomphe, B-1050 Brussels, Belgium
Tel. (32)(2) 650.58.54
Fax (32)(2) 650.58.67
E-mail leroy@ulb.ac.be
Website <http://www.ulb.ac.be/assoc/bms>

BMS-NCM NEWS

No 37, March 15, 2002

News from the Belgian Mathematical Society (BMS)

The BMS members are invited to attend the

General Assembly of the Belgian Mathematical Society

that will take place on

May 27, 2002

in

**Room F (Aud. Henri Moissan) - Forum
Campus Plaine ULB
Bld du Triomphe, 1050 Brussels**

Programme

14.30: **Freddy Delbaen**(ETH Zurich): *A Stability Property of Sets of Probability Measures in relation with problems in finance and risk management*

15.45: **Luc Lemaire** (ULB): *EMS and mathematics in Europe*

16.15: Coffee

16.30: **General Assembly of the BMS.:**

- Report by Jean Schmets, retiring President.
- Elections.

News from the European Mathematical Society (EMS)

EMS Article Competition

*Articles in many ways,
math displays,
says,
the EMS committee of RPA:
A competition surely may,
inspire to the way,
in which to pay,
as we say,
attention to public awareness!*

During World Mathematical Year 2000, many articles on mathematics addressing a general audience were published throughout the world, and many valuable ideas for articles popularizing mathematics were generated. The Committee for Raising Public Awareness of Mathematics of the European Mathematical Society (acronym RPA) believes that it is vital that such articles be written. In order to inspire future articles with a mathematical theme and to collect valuable contributions, which deserve translation into many languages, the EMS wishes to encourage the submissions of articles on mathematics for a general audience, to a competition. The EMS is convinced that such articles will contribute to raising public awareness of mathematics.

The RPA-committee of the EMS invites mathematicians, or others, to submit manuscripts for suitable articles on mathematics.

To be considered, an article must be published, or be about to be published, in a daily newspaper, or some other general magazine, in the country of the author, thereby providing some evidence that the article does catch the Interest of a general audience. Articles for the competition shall be submitted both in the original language (the published version) and preferably also in an English translation. Articles (translations) may, however, also be submitted in French, German, Italian or Spanish. The English (or alternative language) version should be submitted both in paper and electronically.

There will be prizes for the three best articles, respectively 200, 150 and 100 Euros and the winning articles will be published in the Newsletter of the EMS. Other articles from the competition may also be published if space permits. Furthermore, it is planned to establish a web-site containing English versions of all articles from the competition approved by the RPA Committee.

By submitting an article for the competition, it is assumed that the author gives permission to translation of the article into other languages, and for possible inclusion into a web-site. Translations into other languages will be checked by persons appointed by relevant local mathematical societies and will be included on the web-site.

Articles should be sent before December 31, 2002, to the Chairman of the RPA Committee of the EMS:

*Professor Vagn Lundsgaard Hansen,
Department of Mathematics,
Technical University of Denmark,
Matematiktorvet, Building 303,
DK-2800 Kongens Lyngby, Denmark.
e-mail: V.L.Hansen@mat.dtu.dk*

For further information on the Committee for Raising Public Awareness of Mathematics (**RPA**) see

http://www.mat.dtu.dk/persons/Hansen_Vagn_Lundsgaard/rpa.html

News from the V. U. B.

Prof. **Fred Delbaen** (ETHZ) will be visiting the VUB on **Wednesday March 27, 2002** and will deliver a talk at the invitation of the "Vakgroep Wiskunde".

Title: *Snell's envelope for a class of probability measures and its relation to risk management*

Time: 14.00

Venue: Room 10F734, Pleinlaan 2, 1050 Brussels

Abstract:

The aim of the talk is to show how to construct for a given adapted stochastic process X , (indexed in discrete

time for simplicity), and for a given family of probability measures, a stochastic process, say Y , that is a submartingale for each element of the given family and that is dominated by the given process X . The construction of the submartingale Y is related to the construction of Snell's envelope and requires some stability properties of the given family of measures. These stability properties have direct interpretation in risk management. The same problem can be solved in continuous time but the solution is much more difficult.

News from the U. M.-H.

Groupe de contact du Fonds National de la Recherche Scientifique.

Mons-Hainaut University

May 21, 2002

The following speakers have already confirmed their participation:

E.I. Khukhro (Cardiff University, U.K., Novosibirsk Institute of Mathematics, R.)	<i>"Restricted Burnside type problems for groups with operators"</i>
N.Y. Makarenko (Novosibirsk Institute of Mathematics, R.)	<i>"Largely splitting automorphisms"</i>
J.S. Wilson (Birmingham University, U.K.)	<i>"Invisible subgroups of finite index"</i>

It will take place in the department of mathematics of Mons-Hainaut University
"Le Pentagone", room 0A07, 6, Avenue du Champ de Mars, 7000 Mons.

If you are interested and want to receive further information, please contact
Françoise Point (e-mail : point@logique.jussieu.fr),
or
Christian Michaux (email : chrnich@sun1.umh.ac.be),
or
Khaled Jaber (email : jaber@umh.ac.be).

On-line information: <http://www.umh.ac.be/math/logic/interuni/gpecontact.htm>

For further information on the

Séminaire interuniversitaire de logique mathématique (3ème cycle FNRS)

see

<http://www.umh.ac.be/math/logic/seminars.htm>

International Workshop at the K. U. Leuven

Discrete Groups and Geometric Structures, with Applications

May 22 - May 24, 2002

K.U.Leuven Campus Kortrijk, Kortrijk

Supported by

the Katholieke Universiteit Leuven Campus Kortrijk (Faculty of Sciences)

the Fund for Scientific Research - Flanders (Belgium) (F.W.O.)

the F.W.O. Research Network WO.011.96N

Scientific Committee: Herbert Abels, Yves Felix, William Goldman, Fritz Grunewald, Paul Igodt, Kyung Bai Lee.

Speakers: Yves Benoist, Benson Farb, David Fried, Rostislav Grigorchuk, Francois Labourie, Alex Lubotzky (to be confirmed) en Gregory Soifer.

Topics involved: Recent developments concerning all interactions between group theory and geometry are the subject of this workshop. A non-exhaustive list of possible topics include:

- Geometric group theory
- Group actions on manifolds
- Crystallographic groups and all possible generalizations (affine, polynomial, projective crystallographic groups, almost-crystallographic groups)
- Discrete subgroups of Lie groups
- Graphs of groups.

Also applications (in and beyond the fields mentioned) belong to the scope of the workshop.

Regularly updated information is available on the Website:

<http://www.kulak.ac.be/workshop>

News from the U. Lg.

Centre d'analyse fonctionnelle
Université de Liège

Groupe de contact F.N.R.S.
Analyse fonctionnelle

FUNCTIONAL ANALYSIS AND
PARTIAL DIFFERENTIAL EQUATIONS
Han-sur-Lesse, June 10–11, 2002
Domaine des Mesures

The next meeting is organized at the “Domaine des Mesures” in Han-sur-Lesse. It will start on Monday 10 around 14:00 and will end on Tuesday 11 in the early afternoon.

The following speakers are expected:

- V. COLIN (University of Liège)
Asymptotic expansions and Whitney functor
- A. D'AGNOLO (University of Padova)
Integral geometry and D-modules
- K.-G. GROSSE-ERDMANN (University of Hagen)
Chaos and Hypercyclicity for Unbounded Operators
- S. JAFFARD (University of Paris 12)
Analyse multifractale et ondelettes : quelques nouveaux développements
- E. JORDA (Polytechnical University of Valencia)
Extensions of Vector-Valued Meromorphic Functions
- W. LUSKY (University of Paderborn)
On Bases and Bounded Approximation Properties in Banach Spaces
- A. PERIS (Polytechnical University of Valencia)
Hypercyclic Multipliers on Banach Algebras

If you intend to participate in the meeting, please ask for a registration form to one of the organizers. Due to the limited number of possible participants (around 30), we might have to cancel some registrations. The choice will be made according to the rule “first claimed, first served”. A letter dated early May will let you know about this.

F. Bastin: F.Bastin@ulg.ac.be

J. Schmets: J.Schmets@ulg.ac.be

J.-P. Schneiders jpschneiders@ulg.ac.be

Université de Liège / Institut de Mathématique
Grande Traverse, 12 / Sart Tilman Bât. B 37
B-4000 Liège 1 / Belgium.

Programme

Purpose

The colloquium is set up to confront mathematicians with the increasing impact of mathematics on main stream biology. Four eminent researchers have been asked to give a talk on some major challenges in different areas of biomathematics, the interface between biology and mathematics.

Students and researchers in mathematics (pure and applied) and biology – in particular doctoral students – are cordially invited (NO FEE)

10h00 – 11h00 : J. STARK (University College London)

Modelling complex systems in the life sciences: mathematical elegance v. biological relevance

11h00 – 11h30 : COFFEE

11h30 – 12h30 : D. BALDING (Imperial College London)

Fine-mapping of disease loci using genealogical models

12h30 – 14h30 : LUNCH

14h30 – 15h30 : T. VICSEK (University Budapest)

Random networks in life

15h30 – 16h00 : COFFEE

16h00 – 17h00 : C. CANTOR (CSO, Sequenom, Inc.)

Computational challenges in high throughput genetics

Lectures are held at

Department of Mathematics
Campus VUB Etterbeek
Building D
Room D.2.01
Pléinlaan 2, Brussels

Hopf Algebras in noncommutative Geometry and Physics

May 28 - June 1, 2002

Vrije Universiteit Brussel (VUB), Brussel, België
Koninklijke Vlaamse Academie van België
voor Wetenschappen en Kunsten



First Announcement

Scientific committee: S. Caenepeel (Brussels), F. Van Oystaeyen (Antwerp), H-J. Schneider (München), M. Cohen (Ben Gurion University), and C. Nastasescu (Bucharest)

Organizing committee: S. Caenepeel (Brussels), F. Van Oystaeyen (Antwerp)

Lectures by: (tentative list) S. Montgomery, B. Pareigis, K. Szlachányi, H-J. Schneider, M. Cohen, T. Brzezinski, S. Majid, J. Gomez Torrecillas, M. Beattie, G. Böhm, L. Kadison, D. Bulacu, P. Schauenburg, R. Wisbauer, Wang Dingguo, P. Hajac, T. Guédenon, Y. Sommerhäuser, S. Natale, Y. Zhang, C. Cibils, D. Stefan, D. Bulacu, F. Panaite

The congress will take place at Auditorium D and the Marble room of the Royal Flemish Academy of Belgium, located near the centre of Brussels (see <http://www.kvab.be>).

There will be no conference fee. For more information, contact scaenepe@vub.ac.be, or consult <http://homepages.vub.ac.be/~scaenepe/>.

The meeting is supported by

- The project "Non-commutative Geometry" (NOG) from the European Science Foundation (ESF)
- The bilateral project "New computational, geometric and algebraic methods applied to quantum groups and differential operators" of the Flemish and Chinese governments
- The bilateral project "Hopf algebras in Algebra, Topology, Geometry and Physics" of the Flemish and Romanian governments
- FWO-Vlaanderen
- The Royal Flemish Academy of Belgium (KVAB)
- The Free University of Brussels (VUB)